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Edition: Master Best Practices
To Build Modular And Scalable
Server Side Web
Applications

Node Js Design Patterns Second Edition: Master Best Practices To Build Modular And Scalable Server Side Web Applications

Front-end development targets the browser, putting your applications in front of the widest range of users regardless of device or operating system. This guide will give you a solid

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foundation for creating rich web experiences across platforms. Focusing on JavaScript, CSS3, and HTML5, this book is for programmers with a background in other platforms and developers with previous web experience who need to get up to speed quickly on current tools and best practices. Each chapter of this book will guide you through essential concepts and APIs as you build a series of applications. You will implement responsive UIs, access remote web services, build

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applications with Ember.js, and more. You will also debug and test your code with cutting-edge development tools and harness the power of Node.js and the wealth of open-source modules in the npm registry. After working through the step-by-step example projects, you will understand how to build modern websites and web applications.

Learn proven patterns, techniques, and tricks to take full advantage of the Node.js platform. Master well-known design principles to create

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applications that are readable, extensible, and that can grow big. Key Features Learn how to create solid server-side applications by leveraging the full power of Node.js

14 Understand how Node.js works and learn how to take full advantage of its core components as well as the solutions offered by its ecosystem Avoid common mistakes and use proven patterns to create production grade Node.js applications

Book Description In this book, we will show you how to implement a series of best

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practices and design patterns to help you create efficient and robust Node.js applications with ease. We kick off by exploring the basics of Node.js, analyzing its asynchronous event driven architecture and its fundamental design patterns. We then show you how to build asynchronous control flow patterns with callbacks, promises and async/await. Next, we dive into Node.js streams, unveiling their power and showing you how to use them at their full capacity. Following

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streams is an analysis of different creational, structural, and behavioral design patterns that take full advantage of JavaScript and Node.js. Lastly, the book dives into more advanced concepts such as Universal JavaScript, scalability and messaging patterns to help you build enterprise-grade distributed applications. Throughout the book, you'll see Node.js in action with the help of several real-life examples leveraging technologies such as LevelDB, Redis, RabbitMQ,

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ZeroMQ, and many others. They will be used to demonstrate a pattern or technique, but they will also give you a great introduction to the Node.js ecosystem and its set of solutions. What you will learn

Become comfortable with writing asynchronous code by leveraging callbacks, promises, and the async/await syntax

Leverage Node.js streams to create data-driven asynchronous processing pipelines

Implement well-known software design patterns to create

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production grade applications Share code between Node.js and the browser and take advantage of full-stack JavaScript Build and scale microservices and distributed systems powered by Node.js Use Node.js in conjunction with other powerful technologies such as Redis, RabbitMQ, ZeroMQ, and LevelDB Who this book is for This book is for developers and software architects who have some prior basic knowledge of JavaScript and Node.js and now want to get the most

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out of these technologies in terms of productivity, design quality, and scalability. Software professionals with intermediate experience in Node.js and JavaScript will also find valuable the more advanced patterns and techniques presented in this book. This book assumes that you have an intermediate understanding of web application development, databases, and software design principles.

Learn proven patterns, techniques, and tricks to take full advantage of the

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Node.js platform. Master well-known design principles to create applications that are readable, extensible, and that can grow big. Key Features Learn how to create solid server-side applications by leveraging the full power of Node.js 14 Understand how Node.js works and learn how to take full advantage of its core components as well as the solutions offered by its ecosystem Avoid common mistakes and use proven patterns to create production grade Node.js applications Book

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Description In this book, we will show you how to implement a series of best practices and design patterns to help you create efficient and robust Node.js applications with ease. We kick off by exploring the basics of Node.js, analyzing its asynchronous event driven architecture and its fundamental design patterns. We then show you how to build asynchronous control flow patterns with callbacks, promises and async/await. Next, we dive into Node.js streams, unveiling their power and

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showing you how to use them at their full capacity. Following streams is an analysis of different creational, structural, and behavioral design patterns that take full advantage of JavaScript and Node.js. Lastly, the book dives into more advanced concepts such as Universal JavaScript, scalability and messaging patterns to help you build enterprise-grade distributed applications. Throughout the book, you'll see Node.js in action with the help of several real-life

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examples leveraging technologies such as LevelDB, Redis, RabbitMQ, ZeroMQ, and many others. They will be used to demonstrate a pattern or technique, but they will also give you a great introduction to the Node.js ecosystem and its set of solutions. What you will learn

Become comfortable with writing asynchronous code by leveraging callbacks, promises, and the async/await syntax

Leverage Node.js streams to create data-driven asynchronous processing

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pipelines Implement well-known software design patterns to create production grade applications Share code between Node.js and the browser and take advantage of full-stack

JavaScript Build and scale microservices and distributed systems powered by Node.js Use Node.js in conjunction with other powerful technologies such as Redis, RabbitMQ, ZeroMQ, and LevelDB Who this book is for This book is for developers and software architects who have some

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prior basic knowledge of JavaScript and Node.js and now want to get the most out of these technologies in terms of productivity, design quality, and scalability. Software professionals with intermediate experience in Node.js and JavaScript will also find valuable the more advanced patterns and techniques presented in this book. This book assumes that you have an intermediate understanding of web application development, databases, and software design principles.

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"Node: Up and Running"
shows users how Node
scales up to support large
numbers of simultaneous
connections across
multiple servers, and
scales down to create one-
off applications with
minimal infrastructure.

Introducing Ethereum and
Solidity

Node.js 8 the Right Way

Build enterprise-ready,

modular Vue.js

applications with Vuex and

Nuxt

React Design Patterns and

Best Practices

TypeScript 4 Design

Patterns and Best

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Practices

This book is about the 23 common GoF (Gang of Four) Design Patterns implemented in TypeScript. A Design Pattern is a description or template that can be repeatedly applied to a commonly recurring problem in software design. You will find a familiarity with Design Patterns very useful when planning, discussing, developing, managing and documenting your applications from now on and into the future. You will learn these Design Patterns. Creational Factory - Abstract Factory - Builder - Prototype - Singleton Structural Decorator - Adapter - Facade - Bridge - Composite - Flyweight - Proxy Behavioral Command - Chain

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of Responsibility - Observer Pattern
- Interpreter - Iterator - Mediator -
Memento - State - Strategy -

Template - Visitor. If you want a
break from your computer and
read from a book for a while, then
this book is for you. Thanks, Sean
Bradley

Until now, design patterns for the
MapReduce framework have been
scattered among various research
papers, blogs, and books. This
handy guide brings together a
unique collection of valuable
MapReduce patterns that will save
you time and effort regardless of
the domain, language, or
development framework you ' re
using. Each pattern is explained in
context, with pitfalls and caveats

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clearly identified to help you avoid common design mistakes when modeling your big data architecture. This book also provides a complete overview of MapReduce that explains its origins and implementations, and why design patterns are so important. All code examples are written for Hadoop. Summarization patterns: get a top-level view by summarizing and grouping data Filtering patterns: view data subsets such as records generated from one user Data organization patterns: reorganize data to work with other systems, or to make MapReduce analysis easier Join patterns: analyze different datasets together to discover interesting

relationships Metapatterns: piece together several patterns to solve multi-stage problems, or to perform several analytics in the same job Input and output patterns: customize the way you use Hadoop to load or store data "A clear exposition of MapReduce programs for common data processing patterns—this book is indispensable for anyone using Hadoop." --Tom White, author of Hadoop: The Definitive Guide Take your application to the next level of high performance using the extensive capabilities of Node.js About This Book Analyze, benchmark, and profile your Node.js application to find slow spots, and push it to the limit by

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eliminating performance bottlenecks Learn the basis of performance analysis using Node.js Explore the high performance capabilities of Node.js, along with best practices In Detail Node.js is a tool written in C, which allows you to use JavaScript on the server-side. High performance on a platform like Node.js is knowing how to take advantage of every aspect of your hardware, helping memory management act at its best, and correctly deciding how to architect a complex application. Do not panic if your applications start consuming a lot of memory; instead spot the leak and solve it fast with Node.js by monitoring and stopping it before it becomes

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an issue. This book will provide you with the skills you need to analyze the performance of your application and monitor the aspects that can and should be. Starting with performance analysis concepts and their importance in helping Node.js developers eliminate performance bottlenecks, this book will take you through development patterns to avoid performance penalties. You will learn the importance of garbage collection and its behaviour, and discover how to profile your processor, allowing better performance and scalability. You will then learn about the different types of data storage methods. Moving on, you will get to grips

with testing and benchmarking applications to avoid unknown application test zones. Lastly, you will explore the limits that external components can impose in your application in the form of bottlenecks. By following the examples in each chapter, you will discover tips to getting better performing applications by avoiding anti-patterns and stretching the limits of your environment as much as possible. What You Will Learn Develop applications using well-defined and well-tested development patterns Explore memory management and garbage collection to improve performance Monitor memory changes and analyze heap

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snapshots Profile the CPU and improve your code to avoid patterns that force intensive processor usage Understand the importance of data and when you should cache information. Learn to always test your code and benchmark when needed Extend your application ' s scope and know what other elements can influence performance Who This Book Is For This book is for Node.js developers who want a more in-depth knowledge of the platform to improve the performance of their applications. Whether you have a base Node.js background or you are an expert who knows the garbage collector and wants to leverage it to make applications

more robust, the examples in this book will benefit you. Style and approach This is a practical guide to learning high performance, which even the least experienced developer will comprehend. Small and simple examples help you test concepts yourself and easily adapt them to any application, boosting its performance and preparing it for the real-world.

Learn how to write cross platform React Native code by using effective design patterns in the JavaScript world. Get to know industry standard patterns as well as situational patterns. Decouple your application with these set of “ Idea patterns ” . Key FeaturesMobile development in

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React Native should be done in a reusable way. Learn how to build scalable applications using JavaScript patterns that are battle tested. Try effective techniques on your own using over 80 standalone examples. Book Description React Native helps developers reuse code across different mobile platforms like iOS and Android. This book will show you effective design patterns in the React Native world and will make you ready for professional development in big teams. The book will focus only on the patterns that are relevant to JavaScript, ECMAScript, React and React Native. However, you can successfully transfer a lot of the skills and techniques to other

languages. I call them “ Idea patterns ” . This book will start with the most standard development patterns in React like component building patterns, styling patterns in React Native and then extend these patterns to your mobile application using real world practical examples. Each chapter comes with full, separate source code of applications that you can build and run on your phone. The book is also diving into architectural patterns. Especially how to adapt MVC to React environment. You will learn Flux architecture and how Redux is implementing it. Each approach will be presented with its pros and cons. You will learn how to work

with external data sources using libraries like Redux thunk and Redux Saga. The end goal is the ability to recognize the best solution for a given problem for your next mobile application. What you will learn

Explore the design Patterns in React Native

Learn the best practices for React Native development

Explore common React patterns that are highly used within React Native development

Learn to decouple components and use dependency injection in your applications

Explore the best ways of fetching data from the backend systems

Learn the styling patterns and how to implement custom mobile designs

Explore the best

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ways to organize your application code in big codebases Who this book is for The ideal target audience for this book are people eager to learn React Native design patterns who already know the basics of JavaScript. We can assume that the target audience already knows how to write Hello World in JavaScript and know what are the functions, recursive functions, JavaScript types and loops.

MapReduce Design Patterns

Learning Patterns

Common GoF (Gang of Four)

Design Patterns Implemented in

TypeScript

Pro HTML5 and CSS3 Design

Patterns

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To Build Modular And Scalable
Server-Side Web Applications
Implement the Gang of Four
patterns in your apps with Angular
Scalable Server-Side Code with
JavaScript

A detailed and easy-to-follow guide to learning design patterns and modern best practices for improving your TypeScript development skills

- **Understand, analyze, and develop classical design patterns in TypeScript**
- **Explore advanced design patterns taken from functional programming and reactive programming**
- **Discover useful techniques and gotchas when developing large-scale TypeScript applications**

Book Description TypeScript is a

superset language on top of JavaScript that introduces type safety and enhanced developer tooling. TypeScript 4 Design Patterns and Best Practices will assist with understanding design patterns and learning best practices for producing scalable TypeScript applications. It will also serve as handy documentation for future maintainers. This book takes a hands-on approach to helping you get up and running with the implementation of TypeScript design patterns and associated methodologies for writing testable code. You'll start by exploring the practical aspects of TypeScript 4

and its new features. The book will then take you through traditional gang of four (GOF) design patterns, such as behavioral, creational, and structural in their classic and alternative forms, and show you how you can use them in real-world development projects. Once you've got to grips with traditional design patterns, you'll advance to learning about their functional programming and reactive programming counterparts and how they can be coupled to deliver better and more idiomatic TypeScript code. By the end of this TypeScript book, you'll be able to efficiently recognize

when and how to use the right design patterns in any practical use case and gain the confidence to work on scalable and maintainable TypeScript projects of any size. What you will learn • Understand the role of design patterns and their significance • Explore all significant design patterns within the context of TypeScript • Find out how design patterns differ from design concepts • Understand how to put the principles of design patterns into practice • Discover additional patterns that stem from functional and reactive programming • Recognize common gotchas and antipatterns when developing

TypeScript applications and understand how to avoid them
Who this book is for If you're a developer looking to learn how to apply established design patterns to solve common programming problems instead of reinventing solutions, you'll find this book useful. You're not expected to have prior knowledge of design patterns. **Basic TypeScript knowledge is all you need to get started with this book.**

Table of Contents

- **Getting Started With Typescript**
- **Typescript 4**
- **Typescript Principles and Use Cases**
- **Creational Design Patterns**
- **Structural Design Patterns**
- **Behavioral Design Patterns**

**Functional Programming Design
Concepts • Reactive Design
Patterns • Developing Robust and
Modern Typescript Applications •
Anti Patterns and Workarounds**
Make the most of Angular by
leveraging design patterns and
best practices to build stable and
high performing apps **Key
Features** Get to grips with the
benefits and applicability of using
different design patterns in
Angular with the help of real-
world examples Identify and
prevent common problems,
programming errors, and anti-
patterns Packed with easy-to-
follow examples that can be used
to create reusable code and

extensible designs Book
Description This book is an insightful journey through the most valuable design patterns, and it will provide clear guidance on how to use them effectively in Angular. You will explore some of the best ways to work with Angular and how to use it to meet the stability and performance required in today's web development world. You'll get to know some Angular best practices to improve your productivity and the code base of your application. We will take you on a journey through Angular designs for the real world, using a combination of case studies, design patterns to

follow, and anti-patterns to avoid. By the end of the book, you will understand the various features of Angular, and will be able to apply well-known, industry-proven design patterns in your work. What you will learn Understand Angular design patterns and anti-patterns Implement the most useful GoF patterns for Angular Explore some of the most famous navigational patterns for Angular Get to know and implement stability patterns Explore and implement operations patterns Explore the official best practices for Angular Monitor and improve the performance of Angular applications Who this book is for

If you want to increase your understanding of Angular and apply it to real-life application development, then this book is for you.

With Learning JavaScript Design Patterns, you'll learn how to write beautiful, structured, and maintainable JavaScript by applying classical and modern design patterns to the language. If you want to keep your code efficient, more manageable, and up-to-date with the latest best practices, this book is for you. Explore many popular design patterns, including Modules, Observers, Facades, and Mediators. Learn how modern

architectural patterns—such as MVC, MVP, and MVVM—are useful from the perspective of a modern web application developer. This book also walks experienced JavaScript developers through modern module formats, how to namespace code effectively, and other essential topics. Learn the structure of design patterns and how they are written Understand different pattern categories, including creational, structural, and behavioral Walk through more than 20 classical and modern design patterns in JavaScript Use several options for writing modular code—including the

**Module pattern, Asynchronous
Module Definition (AMD), and
CommonJS Discover design
patterns implemented in the
jQuery library Learn popular
design patterns for writing
maintainable jQuery plug-ins**
"This book should be in every
JavaScript developer's hands.
It's the go-to book on JavaScript
patterns that will be read and
referenced many times in the
future."—Andrée Hansson, Lead
Front-End Developer, presis!
Boost your development efficiency
by learning about design patterns
in TypeScript About This Book
This step-by-step guide will would
demonstrate all the important

design patterns in practice This book is the only documentation on the market focusing on design patterns in TypeScript This book is packed with rich examples that will improve your efficiency and encourage code reuse Who This Book Is For If you are a TypeScript developer, this book is for you. No knowledge of design patterns is required to read this book. What You Will Learn Understand the challenges and implications of developing an enterprise application Install and configure the necessary tools in order to start developing an application Identify the challenges when developing an application

Apply GoF patterns in an application with a testing approach Use and utilize design patterns while developing a TypeScript application or during JavaScript application development Reference to SOLID principles and what their benefits do to your projects Apply various principles in a TypeScript application Improve code quality and development speed In Detail In programming, there are several problems that occur frequently. To solve these problems, there are various repeatable solutions that are known as design patterns. Design patterns are a great way to improve the efficiency of your

programs and improve your productivity. This book is a collection of the most important patterns you need to improve your applications' performance and your productivity. The journey starts by explaining the current challenges when designing and developing an application and how you can solve these challenges by applying the correct design pattern and best practices. Each pattern is accompanied with rich examples that demonstrate the power of patterns for a range of tasks, from building an application to code testing. We'll introduce low-level programming concepts to help you write

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TypeScript code, as well as work with software architecture, best practices, and design aspects.

Style and approach In this book, design patterns are explained in a step-by-step manner. All the major patterns covered will improve your understanding of TypeScript and the patterns associated with TypeScript.

Building Real-World Scalable Web Apps

Design and Implement Production-Grade Node. Js Applications

Using Proven Patterns and Techniques, 3rd Edition

A JavaScript and jQuery Developer's Guide

Beginning Node.js

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To Build Modular And Scalable
Server Side Web Applications

Building Effective Algorithms and Analytics for Hadoop and Other Systems

Hands-On Design Patterns with React Native

If you're a JavaScript developer interested in a deeper understanding of how to create and design Node.js applications, this is the book for you. Pro HTML5 and CSS3 Design Patterns is a reference book and a cookbook on how to style web pages using CSS3 and HTML5. It contains 350 ready-to-use patterns (CSS3 and HTML5 code snippets) that you can copy and paste into your code. Each pattern can be combined with other patterns to create an unlimited number of solutions, and each pattern works reliably in all major browsers without the need for browser hacks. The book

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is completely up-to-date with code, best practices, and browser compatibilities for HTML5 and CSS3—enabling you to dive in and make use of these new technologies in production environments. Pro HTML5 and CSS3 Design Patterns is so much more than just a cookbook, though! It systematically covers every usable feature of CSS3 and combines these features with HTML5 to create reusable patterns. Each pattern has an intuitive name to make it easy to find, remember, and refer to. Accessibility and best practices are carefully engineered into each design pattern, example, and source code. The book's layout, with a pattern's example on the left page and its explanation on the right, makes it easy to find a pattern and study it without having to flip between pages. The book is also

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readable from cover to cover, with topics building carefully upon previous topics. Pro HTML5 and CSS3 Design Patterns book unleashes your productivity and creativity in web design and development. Instead of hacking your way toward a solution, you'll learn how to predictably create successful designs every time by reusing and combining modular design patterns.

Beginning Node.js is your step-by-step guide to learning all the aspects of creating maintainable Node.js applications. You will see how Node.js is focused on creating high-performing, highly-scalable websites, and how easy it is to get started. Many front-end devs regularly work with HTML, CSS, PHP, even WordPress, but haven't yet got started with Node.js. This book explains everything

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for you from a beginner level, enabling you to start using Node.js in your projects right away. Using this book you will learn important Node.js concepts for server-side programming. You will begin with an easy-to-follow pure JavaScript primer, which you can skip if you're confident of your JS skills. You'll then delve into Node.js concepts such as streams and events, and the technology involved in building full-stack Node.js applications. You'll also learn how to test your Node.js code, and deploy your Node.js applications on the internet. Node.js is a great and simple platform to work with. It is lightweight, easy to deploy and manage. You will see how using Node.js can be a fun and rewarding experience - start today with Beginning Node.js.

Learn to build fast and scalable

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software in JavaScript with Node.js
Node.js is a powerful and popular new
framework for writing scalable network
programs using JavaScript. This no
nonsense book begins with an
overview of Node.js and then quickly
dives into the code, core concepts,
and APIs. In-depth coverage pares
down the essentials to cover
debugging, unit testing, and flow
control so that you can start building
and testing your own modules right
away. Covers node and asynchronous
programming main concepts
Addresses the basics: modules,
buffers, events, and timers Explores
streams, file systems, networking, and
automated unit testing Goes beyond
the basics, and shares techniques and
tools for debugging, unit testing, and
flow control If you already know
JavaScript and are curious about the

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power of Node.js, then this is the ideal book for you.

Get Programming with Node.js
Practical, Server-Side JavaScript That Scales

Build Better Applications with Coding and Design Patterns

Node.js: Design Patterns

Building Javascript Based Scalable Software

The Big Nerd Ranch Guide

Many companies, from startups to Fortune 500 companies alike, use Node.js to build performant backend services. And engineers love Node.js for its approachable API and familiar syntax. Backed by the world's largest package repository, Node's enterprise foothold is only expected to grow. In

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*this hands-on guide, author
Thomas Hunter II proves that
Node.js is just as capable
as traditional enterprise
platforms for building
services that are
observable, scalable, and
resilient. Intermediate to
advanced Node.js developers
will find themselves
integrating application code
with a breadth of tooling
from each layer of a modern
service stack. Learn why
running redundant copies of
the same Node.js service is
necessary Know which
protocol to choose,
depending on the situation
Fine-tune your application
containers for use in
production Track down errors*

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in a distributed setting to determine which service is at fault Simplify app code and increase performance by offloading work to a reverse proxy Build dashboards to monitor service health and throughput Find out why so many different tools are required when operating in an enterprise environment In this book, you will learn design patterns, performance and rendering patterns for building high-quality web applications using modern JavaScript and React. Patterns are time-tested templates for writing code. They can be really powerful, whether you're a seasoned developer or beginner,

bringing a valuable level of resilience and flexibility to your codebase. Whether it's better user-experience, developer-experience or just smarter architecture, the patterns in "Learning Patterns" can be a valuable consideration for any modern web application.

Build modular applications that are easy to scale using the most powerful components and design patterns that React can offer you right now About This Book Dive into the core patterns and components of React.js in order to master your application's design Improve their debugging skills using the DevTools This book is

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Server Side Web Applications
packed with easy-to-follow
examples that can be used to
create reusable code and
extensible designs Who This
Book Is For If you want to
increase your understanding
of React and apply it to
real-life application
development, then this book
is for you. What You Will
Learn Write clean and
maintainable code Create
reusable components applying
consolidated techniques Use
React effectively in the
browser and node Choose the
right styling approach
according to the needs of
the applications Use server-
side rendering to make
applications load faster
Build high-performing

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*applications by optimizing
components in detail taking
a complete journey through
the most valuable design
patterns in React, this book
demonstrates how to apply
design patterns and best
practices in real-life
situations, whether that's
for new or already existing
projects. It will help you
to make your applications
more flexible, perform
better, and easier to
maintain - giving your
workflow a huge boost when
it comes to speed without
reducing quality. We'll
begin by understanding the
internals of React before
gradually moving on to
writing clean and*

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maintainable code. We'll build components that are reusable across the application, structure applications, and create forms that actually work. Then we'll style React components and optimize them to make applications faster and more responsive. Finally, we'll write tests effectively and you'll learn how to contribute to React and its ecosystem. By the end of the book, you'll be saved from a lot of trial and error and developmental headaches, and you will be on the road to becoming a React expert. Style and approach The design patterns in the book are explained

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using real-world, step-by-step examples. For each design pattern, there are hints about when to use it and when to look for something more suitable. This book can also be used as a practical guide, showing you how to leverage design patterns. Learn idiomatic, efficient, clean, and extensible Go design and concurrency patterns by using TDD About This Book A highly practical guide filled with numerous examples unleashing the power of design patterns with Go. Discover an introduction of the CSP concurrency model by explaining GoRoutines and

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channels. Get a full explanation, including comprehensive text and examples, of all known GoF design patterns in Go. Who This Book Is For The target audience is both beginner- and advanced-level developers in the Go programming language. No knowledge of design patterns is expected. What You Will Learn All basic syntax and tools needed to start coding in Go Encapsulate the creation of complex objects in an idiomatic way in Go Create unique instances that cannot be duplicated within a program Understand the importance of object encapsulation to provide

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clarity and maintainability
Prepare cost-effective
actions so that different
parts of the program aren't
affected by expensive tasks
Deal with channels and
GoRoutines within the Go
context to build concurrent
application in Go in an
idiomatic way In Detail Go
is a multi-paradigm
programming language that
has built-in facilities to
create concurrent
applications. Design
patterns allow developers to
efficiently address common
problems faced during
developing applications. Go
Design Patterns will provide
readers with a reference
point to software design

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patterns and CSP concurrency
To Build Modular And Scalable
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build applications in a more
idiomatic, robust, and
convenient way in Go. The
book starts with a brief
introduction to Go
programming essentials and
quickly moves on to explain
the idea behind the creation
of design patterns and how
they appeared in the 90's as
a common "language" between
developers to solve common
tasks in object-oriented
programming languages. You
will then learn how to apply
the 23 Gang of Four (GoF)
design patterns in Go and
also learn about CSP
concurrency patterns, the
"killer feature" in Go that

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has helped Google develop software to maintain thousands of servers. With all of this the book will enable you to understand and apply design patterns in an idiomatic way that will produce concise, readable, and maintainable software.

Style and approach This book will teach widely used design patterns and best practices with Go in a step-by-step manner. The code will have detailed examples, to allow programmers to apply design patterns in their day-to-day coding.

The CLI Book

Design Patterns

Node.js High Performance

Practical Node.js

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**Foundations of
Cryptocurrency and
Blockchain Programming for
Beginners**

Node.js in Action

Node.js is the platform of choice for creating modern web services. This fast-paced book gets you up to speed on server-side programming with Node.js 8, as you develop real programs that are small, fast, low-profile, and useful. Take JavaScript beyond the browser, explore dynamic language features, and embrace evented programming. Harness the power of the event loop and non-blocking I/O to create highly

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parallel microservices and applications. This expanded and updated second edition showcases the latest ECMAScript features, current best practices, and modern development techniques. JavaScript is the backbone of the modern web, powering nearly every web app's user interface. Node.js is JavaScript for the server. This greatly expanded second edition introduces new language features while dramatically increasing coverage of core topics. Each hands-on chapter offers progressively more challenging topics and techniques, broadening your skill

set and enabling you to think in Node.js. Write asynchronous, non-blocking code using Node.js's style and patterns. Cluster and load balance services with Node.js core features and third-party tools. Harness the power of databases such as Elasticsearch and Redis. Work with many protocols, create RESTful web services, TCP socket clients and servers, and more. Test your code's functionality with Mocha, and manage its life cycle with npm. Discover how Node.js pairs a server-side event loop with a JavaScript runtime to produce screaming fast, non-blocking

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concurrency. Through a series of practical programming domains, use the latest available ECMAScript features and harness key Node.js classes and popular modules. Create rich command-line tools and a web-based UI using modern web development techniques. Join the smart and diverse community that's rapidly advancing the state of the art in JavaScript development. What You Need: Node.js 8.x Operating system with bash-like shell OMQ (pronounced "Zero-M-Q") library, version 3.2 or higher Elasticsearch version 5.0 or higher jq version 1.5 or higher

Redis version 3.2 or higher
What's the best approach for developing an application with JavaScript? This book helps you answer that question with numerous JavaScript coding patterns and best practices. If you're an experienced developer looking to solve problems related to objects, functions, inheritance, and other language-specific categories, the abstractions and code templates in this guide are ideal—whether you're using JavaScript to write a client-side, server-side, or desktop application. Written by JavaScript expert Stoyan Stefanov—Senior Yahoo!

Technical and architect of YSlow 2.0, the web page performance optimization tool—JavaScript Patterns includes practical advice for implementing each pattern discussed, along with several hands-on examples. You'll also learn about anti-patterns: common programming approaches that cause more problems than they solve. Explore useful habits for writing high-quality JavaScript code, such as avoiding globals, using single var declarations, and more Learn why literal notation patterns are simpler alternatives to constructor functions Discover different ways to define a

function in JavaScript Create objects that go beyond the basic patterns of using object literals and constructor functions Learn the options available for code reuse and inheritance in JavaScript Study sample JavaScript approaches to common design patterns such as Singleton, Factory, Decorator, and more Examine patterns that apply specifically to the client-side browser environment Learn everything that makes command line clients such as Git and npm so successful, and how to compose the best on your own. This book is your concise step-by-step guide to writing

command line clients with Node.js. You'll start by discovering what is needed for a successful command line client and develop a solid foundation for practical skill. Next you will build an application based on learned principles in Node.js. The sometimes-puzzling world of streaming is fully explained with practical examples, as well as unit testing and integration testing. Lastly you'll explore a full range of tips and tricks designed to make the daily life of a software maintainer easier. The Node.js ecosystem provides support for writing command line clients and has a thriving, very

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active community. With this book as your guide, you'll become a successful creator of your own command line clients. Make an impact in the areas you really care about using The CLI Book. What You'll Learn Become a successful creator of your own command line clients and make an impact Set your command line tool apart from others Prioritize user experience Employ best practices to structure and architect your own clients Apply tips and tricks collected from years of developing with Node.js Who This Book Is For Those who know some JavaScript and want

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to deepen their knowledge, especially in the area of CLI development.

This book contains an extensive set of practical examples and an easy-to-follow approach to creating 3D objects. This book is great for anyone who already knows JavaScript and who wants to start creating 3D graphics that run in any browser. You don't need to know anything about advanced math or WebGL; all that is needed is a general knowledge of JavaScript and HTML. The required materials and examples can be freely downloaded and all tools used in this book are open source.

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production-grade Node.js
applications using proven
patterns and techniques, 3rd
Edition*

*Proven techniques and patterns
for efficient native mobile
development with JavaScript
Patterns for building powerful
web apps with vanilla JavaScript
and React*

*Mastering Node.js
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standard practices, 3rd Edition*

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Learn how to use Solidity and the Ethereum project - second only to Bitcoin in market capitalization. Blockchain protocols are taking the world by storm, and the Ethereum project, with its Turing-complete scripting language Solidity, has rapidly become a front-runner. This book presents the blockchain phenomenon in context; then situates Ethereum in a world pioneered by Bitcoin. See why professionals and non-professionals alike are honing their skills in smart contract patterns and distributed application development. You'll review the fundamentals of programming and networking, alongside its introduction to the new discipline of crypto-

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economics. You'll then deploy smart contracts of your own, and learn how they can serve as a back-end for JavaScript and HTML applications on the Web. Many Solidity tutorials out there today have the same flaw: they are written for "advanced" JavaScript developers who want to transfer their skills to a blockchain environment. Introducing Ethereum and Solidity is accessible to technology professionals and enthusiasts of all levels. You'll find exciting sample code that can move forward real world assets in both the academic and the corporate arenas. Find out now why this book is a powerful gateway for creative technologists of all types, from

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**concept to deployment. What
You'll Learn See how Ethereum
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Ethereum smart contracts in
Solidity Connect Ethereum smart
contracts to your
HTML/CSS/JavaScript web
applications Deploy your own
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with computer science Product
managers, CTOs, and
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programmers Experts will find
the advanced sample projects in
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the power of Solidity**

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Node.js Applications

Build scalable web applications using Node.js, Express.js, and the latest ECMAScript techniques, along with deploying applications with AWS and Docker with this updated fifth edition

Key Features

- Learn backend web programming with the JavaScript stack
- Explore best practices, right from configuring and building web servers to deploying them on a production cloud hosting system: AWS using Docker and Terraform
- Work through the different stages of developing robust and scalable apps using Node.js

14 Book Description Node.js is the leading choice of server-side web development platform, enabling developers to use the same tools and paradigms for both server-

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side and client-side software. This updated fifth edition of Node.js Web Development focuses on the new features of Node.js 14, Express 4.x, and ECMAScript, taking you through modern concepts, techniques, and best practices for using Node.js. The book starts by helping you get to grips with the concepts of building server-side web apps with Node.js. You'll learn how to develop a complete Node.js web app, with a backend database tier to help you explore several databases. You'll deploy the app to real web servers, including a cloud hosting platform built on AWS EC2 using Terraform and Docker Swarm, while integrating other tools such as Redis and NGINX. As you

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advance, you'll learn about unit and functional testing, along with deploying test infrastructure using Docker. Finally, you'll discover how to harden Node.js app security, use Let's Encrypt to provision the HTTPS service, and implement several forms of app security with the help of expert practices. With each chapter, the book will help you put your knowledge into practice throughout the entire life cycle of developing a web app. By the end of this Node.js book, you'll have gained practical Node.js web development knowledge and be able to build and deploy your own apps on a public web hosting solution. What you will learn • Install and use Node.js 14 and Express 4.17 for both web

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**development and deployment •
Implement RESTful web services
using the Restify framework •
Develop, test, and deploy
microservices using Docker,
Docker Swarm, and Node.js, on
AWS EC2 using Terraform • Get
up to speed with using data
storage engines such as MySQL,
SQLite3, and MongoDB • Test
your web applications using unit
testing with Mocha, and headless
browser testing with Puppeteer •
Implement HTTPS using Let's
Encrypt and enhance application
security with Helmet Who this
book is for If you're looking for
an alternative to the 'P'
languages (Perl, PHP, and
Python), or if you want to get
started with server-side web
development with JavaScript**

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programming, or if you want a deep dive into deploying to cloud hosting, this Node.js book is for you. A rudimentary understanding of JavaScript and web application development is a must before you get started with this book. Table of Contents • About Node.js • Setting Up Node.js • Exploring Node.js Modules • HTTP Servers and Clients • Your First Express Application • Implementing the Mobile-First Paradigm • Data Storage and Retrieval • Authenticating Users with a Microservice • Dynamic Client/Server Interaction with Socket.IO • Deploying Node.js Applications to Linux Servers • Deploying Node.js microservices with Docker • Deploying a Docker

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**Swarm to AWS EC2 with
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Functional Testing • Security in
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Build scalable, high-traffic websites and web applications with Node.js For many .NET programmers, Node.js represents a new way to build high-traffic websites and applications. Now there's a practical, concise introduction to Node.js specifically for Microsoft developers. David Gaynes guides you through the entire Node.js development process. Using Microsoft Visual Studio examples, he addresses everything from setting up servers and authorization through delivering rich CSS pages packed with graphics and

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***data-driven content. Gaynes
clearly explains Node.js's async
model, coding approach,
request/response paradigm, site
structure, data management,
security, and more. This quick
guide will help you apply your
hard-won .NET skills to Node.js.
Expert guidance showing you
how to: Choose, organize, and
configure the tools you need to
build Node.js solutions in Visual
Studio Apply JavaScript coding
practices that help you avoid
problems in Node.js Work with
callback functions and the
Node.js asynchronous
programming model Set up a
Node.js project and use what you
know about MVVM and MVC
patterns Control the entire
Node.js request/response life***

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cycle Establish site structure,
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resources Manage data through
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and file uploads Integrate data
from Microsoft SQL Server and
other databases Use Passport to
integrate simple, flexible
authentication
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Node.js for .NET Developers
Server-side web development
made easy with Node 14 using
practical examples
Vue.js 2 Design Patterns and
Best Practices
React is an open-source JavaScript

library that is used for building user interfaces or UI components. This React book is designed to take you through the most valuable design patterns in React, helping you learn how to apply design patterns and best practices in real-world scenarios.

Become an expert Vue developer by understanding design patterns and the component architecture of Vue.js to write clean and maintainable code
Key Features
Craft highly modular applications by exploring design patterns and the component architecture of Vue.js
Enforce a Flux-like application architecture in your Vue.js applications with Vuex
Easy-

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*to-follow examples that can be used
to create reusable code and
extensible designs Book*

*Description Vue.js 2 Design
Patterns and Best Practices starts
by comparing Vue.js with other
frameworks and setting up the
development environment for your
application, and gradually moves
on to writing and styling clean,
maintainable, and reusable Vue.js
components that can be used across
your application. Further on, you'll
look at common UI patterns, Vue
form submission, and various
modifiers such as lazy binding,
number typecasting, and string
trimming to create better UIs. You
will also explore best practices for*

integrating HTTP into Vue.js applications to create an application with dynamic data.

Routing is a vitally important part of any SPA, so you will focus on the vue-router and explore routing a user between multiple pages.

Next, you'll also explore state management with Vuex, write testable code for your application, and create performant, server-side rendered applications with Nuxt.

Toward the end, we'll look at common antipatterns to avoid, saving you from a lot of trial and error and development headaches. By the end of this book, you'll be on your way to becoming an expert Vue developer who can leverage

design patterns to efficiently architect the design of your application and write clean and maintainable code. What you will learn Understand the theory and patterns of Vue.js Build scalable and modular Vue.js applications Take advantage of Vuex for reactive state management Create single page applications with vue-router Use Nuxt for FAST server-side rendered Vue applications Convert your application to a Progressive Web App (PWA) and add ServiceWorkers and offline support Build your app with Vue.js by following best practices and explore the common anti-patterns to avoid Who this book is for This

book is for Vue developers who are familiar with framework design principles and utilize commonly found design patterns in developing web applications.

Summary Node.js in Action, Second Edition is a thoroughly revised book based on the best-selling first edition. It starts at square one and guides you through all the features, techniques, and concepts you'll need to build production-quality Node applications. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology You already know JavaScript. The trick to mastering

Node.js is learning how to build applications that fully exploit its powerful asynchronous event handling and non-blocking I/O features. The Node server radically simplifies event-driven real-time apps like chat, games, and live data analytics, and with its incredibly rich ecosystem of modules, tools, and libraries, it's hard to beat! About the Book Based on the bestselling first edition, Node.js in Action, Second Edition is a completely new book. Packed with practical examples, it teaches you how to create high-performance web servers using JavaScript and Node. You'll master key design concepts such as asynchronous

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programming, state management, and event-driven programming. And you'll learn to put together MVC servers using Express and Connect, design web APIs, and set up the perfect production environment to build, lint, and test. What's Inside Mastering non-blocking I/O The Node event loop Testing and deploying Web application templating About the Reader Written for web developers with intermediate JavaScript skills. About the Authors The Second Edition author team includes Node masters Alex Young, Bradley Meck, Mike Cantelon, and Tim Oxley, along with original authors Marc Harter, T.J. Holowaychuk,

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and Nathan Rajlich. Table of contents PART 1 - WELCOME TO NODE Welcome to Node.js Node programming fundamentals What is a Node web application? PART 2 - WEB DEVELOPMENT WITH NODE Front-end build systems Server-side frameworks Connect and Express in depth Web application templating Storing application data Testing Node applications Deploying Node applications and maintaining uptime PART 3 - BEYOND WEB DEVELOPMENT Writing command-line applications Conquering the desktop with Electron Get the best out of Node.js by

mastering its most powerful components and patterns to create modular and scalable applications with ease About This Book Create reusable patterns and modules by leveraging the new features of Node.js . Understand the asynchronous single thread design of node and grasp all its features and patterns to take advantage of various functions. This unique guide will help you get the most out of Node.js and its ecosystem. Who This Book Is For The book is meant for developers and software architects with a basic working knowledge of JavaScript who are interested in acquiring a deeper understanding of how to design

and develop enterprise-level Node.js applications. Basic knowledge of Node.js is also helpful to get the most out of this book. What You Will Learn Design and implement a series of server-side JavaScript patterns so you understand why and when to apply them in different use case scenarios Become comfortable with writing asynchronous code by leveraging constructs such as callbacks, promises, generators and the async-await syntax Identify the most important concerns and apply unique tricks to achieve higher scalability and modularity in your Node.js application Untangle your modules by organizing and

connecting them coherently Reuse well-known techniques to solve common design and coding issues Explore the latest trends in Universal JavaScript, learn how to write code that runs on both Node.js and the browser and leverage React and its ecosystem to implement universal applications In Detail Node.js is a massively popular software platform that lets you use JavaScript to easily create scalable server-side applications. It allows you to create efficient code, enabling a more sustainable way of writing software made of only one language across the full stack, along with extreme levels of reusability, pragmatism, simplicity,

and collaboration. Node.js is revolutionizing the web and the way people and companies create their software. In this book, we will take you on a journey across various ideas and components, and the challenges you would commonly encounter while designing and developing software using the Node.js platform. You will also discover the "Node.js way" of dealing with design and coding decisions. The book kicks off by exploring the basics of Node.js describing it's asynchronous single-threaded architecture and the main design patterns. It then shows you how to master the asynchronous control

flow patterns, and the stream component and it culminates into a detailed list of Node.js implementations of the most common design patterns as well as some specific design patterns that are exclusive to the Node.js world. Lastly, it dives into more advanced concepts such as Universal Javascript, and scalability' and it's meant to conclude the journey by giving the reader all the necessary concepts to be able to build an enterprise grade application using Node.js. Style and approach This book takes its intended readers through a comprehensive explanation to create a scalable and efficient real-

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Design and Implement Production-
grade Node.js Applications Using
Proven Patterns and Techniques

Go Design Patterns

React 17 Design Patterns and Best
Practices

Professional Node.js

Writing Successful Command Line
Interfaces with Node.js

Summary Node.js in Practice is
a collection of fully tested
examples that offer solutions
to the common and not-so-
common issues you face when

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you roll out Node. You'll dig into important topics like the ins and outs of event-based programming, how and why to use closures, how to structure applications to take advantage of end-to-end JavaScript apps, and more. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book You've decided to use Node.js for your next project and you need the skills to implement Node in production. It would be great to have Node experts Alex Young and Marc Harter at your side to help you tackle those day-to-day challenges.

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With this book, you can! Node.js in Practice is a collection of 115 thoroughly tested examples and instantly useful techniques guaranteed to make any Node application go more smoothly. Following a common-sense Problem/Solution format, these experience-fueled techniques cover important topics like event-based programming, streams, integrating external applications, and deployment. The abundantly annotated code makes the examples easy to follow, and techniques are organized into logical clusters, so it's a snap to find what you're looking for. Written for

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readers who have a practical knowledge of JavaScript and the basics of Node.js. What's Inside Common usage examples, from basic to advanced Designing and writing modules Testing and debugging Node apps Integrating Node into existing systems About the Authors Alex Young is a seasoned JavaScript developer who blogs regularly at DailyJS. Marc Harter works daily on large-scale projects including high-availability real-time applications, streaming interfaces, and other data-intensive systems. Table of Contents PART 1 NODE

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Events: Mastering EventEmitter and beyond
Streams: Node's most powerful and misunderstood feature
File system: Synchronous and asynchronous approaches
Networking: Node's true "Hello, World"
Child processes: Integrating external applications with Node*

*PART 2 REAL-WORLD RECIPES The Web: Build leaner and meaner web applications
Tests: The key to confident code
Debugging: Designing for introspection and resolving*

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issues Node in production:

Deploying applications safely

PART 3 WRITING MODULES

*Writing modules: Mastering
what Node is all about*

Software -- Software

Engineering.

*Learn how to use common
design patterns in Node.js to
write better JavaScript code.*

*Learn how to build a wide
range of scalable real-world
web applications using a
professional development
toolkit. If you already know the
basics of Node.js, now is the
time to discover how to bring it
to production level by
leveraging its vast ecosystem
of packages. With this book,*

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you'll work with a varied collection of standards and frameworks and see how all those pieces fit together. Practical Node.js takes you from installing all the necessary modules to writing full-stack web applications. You'll harness the power of the Express.js and Hapi frameworks, the MongoDB database with Mongoskin and Mongoose. You'll also work with Pug and Handlebars template engines, Stylus and LESS CSS lanaguages, OAuth and Everyauth libraries, and the Socket.IO and Derby libraries, and everything in between. This exciting second

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edition is fully updated for ES6/ES2015 and also covers how to deploy to Heroku and AWS, daemonize apps, and write REST APIs. You'll build full-stack real-world Node.js apps from scratch, and also discover how to write your own Node.js modules and publish them on NPM. You already know what Node.js is; now learn what you can do with it and how far you can take it! What You'll Learn

Manipulate data from the mongo console Use the Mongoose and Mongoose MongoDB libraries Build REST API servers with Express and Hapi Deploy apps to Heroku and AWS Test services with

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*Mocha, Expect and TravisCI
Utilize sessions for
authentication Implement a
third-party OAuth strategy with
Everyauth Apply Redis,
domains, WebSockets, and
clusters Write your own
Node.js module, and publish it
on NPM Who This Book Is For
Web developers who have
some familiarity with the
basics of Node.js and want to
learn how to use it to build
apps in a professional
environment.*

*RESTful Web API Design with
Node.js*

*Learning JavaScript Design
Patterns*

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create powerful
applications by
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JavaScript design
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and true software design
methodologies to enhance
your JavaScript code
Discover robust
JavaScript
implementations of
classic and advanced
design patterns Packed

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with easy-to-follow examples that can be used to create reusable code and extensible designs Who This Book Is For This book is ideal for JavaScript developers who want to gain expertise in object-oriented programming with JavaScript and the new capabilities of ES-2015 to improve their web development skills and build professional-quality web applications. What You Will Learn Harness the power of patterns for

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tasks ranging from application building to code testing Rethink and revitalize your code with the use of functional patterns Improve the way you organize your code Build large-scale apps seamlessly with the help of reactive patterns Identify the best use cases for microservices Get to grips with creational, behavioral, and structural design patterns Explore advanced design patterns including dependency

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injection In Detail With the recent release of ES-2015, there are several new object-oriented features and functions introduced in JavaScript. These new features enhance the capabilities of JavaScript to utilize design patterns and software design methodologies to write powerful code. Through this book, you will explore how design patterns can help you improve and organize your JavaScript code.

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You'll get to grips with
creational, structural
and behavioral patterns
as you discover how to
put them to work in
different scenarios.
Then, you'll get a
deeper look at patterns
used in functional
programming, as well as
model view patterns and
patterns to build web
applications. This
updated edition will
also delve into reactive
design patterns and
microservices as they
are a growing phenomenon
in the world of web

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development. You will also find patterns to improve the testability of your code using mock objects, mocking frameworks, and monkey patching. We'll also show you some advanced patterns including dependency injection and live post processing. By the end of the book, you'll be saved of a lot of trial and error and developmental headaches, and you will be on the road to becoming a JavaScript expert. Style and approach Packed with

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Summary Get Programming with Node.js teaches you to build web servers using JavaScript and Node. In this engaging tutorial, you'll work through eight complete projects, from writing

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understand why RESTful
web services are better
data provisioning
solution than other
technologies. You will
start setting up a
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by installing Node.js,
Express.js, and other
modules. Next, you will

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write a simple HTTP request handler and create and test Node.js modules using automated tests and mock objects. You will then have to choose the most appropriate data storage type, having options between a key/value or document data store, and also you will implement automated tests for it. This module will evolve chapter by chapter until it turns into a full-fledged and secure Restful service. Style and approach Create

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