

Node Js In Action

Node.js in Action Tim Oxley 2017-08-16 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 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, 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

Node.js in Practice Marc Harter 2014-12-03 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 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. 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 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 FUNDAMENTALS Getting started Globals: Node's environment Buffers: Working with bits, bytes, and encodings 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 issues Node in production: Deploying applications safely PART 3 WRITING MODULES Writing modules: Mastering what Node is all about

hapi.js in Action Matt Harrison 2016-12-09 Summary Hapi.js in Action teaches you how to build modern Node-driven applications using hapi.js. Packed with examples, this book takes you from your first simple server through the skills you'll need to build a complete application. Foreword by Eran Hammer. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology The hapi.js web framework for Node.js is built around three radical ideas. Developer productivity: hapi's intuitive setup gets you up and running in no time. Maintainability: hapi's modular design allows for easy scaling and improvement. Flexibility: hapi has a lightweight core that you can expand and customize with plugins. Are you ready to get hapi? About the Book Hapi.js in Action is an incredibly practical book that teaches you to build APIs, servers, and applications using Node.js and the hapi.js framework. You'll begin with an easy-to-follow mental model of a Node.js web application and see exactly where hapi fits into the picture. Then, you'll walk through building an API and composing it into a web application. Along the way, you'll explore key topics like validation, testing, authentication, and deployment. Throughout, you'll learn how to build rock-solid, secure, and fast applications. What's Inside Best practices for Node application design Building APIs with hapi Maintaining and scaling applications Extending hapi with plugins About the Reader This book assumes you have strong JavaScript skills. Experience with Node.js is helpful but not required. About the Author

Matt Harrison is a core contributor to hapi.js and an active member of the Node community. Table of Contents PART 1 - FIRST STEPS Introducing hapi Building an API Building a website PART 2 - EXPANDING YOUR TOOLBOX Routes and handlers in-depth Understanding requests and responses Validation with Joi Building modular applications with plugins Cache me if you can PART 3 - CREATING ROCK-SOLID APPS Authentication and security Testing with Lab, Code, and server.inject() Production and beyond *Beginning API Development with Node.js* Anthony Nandaa 2018-07-24 Learn everything you need to get up and running with cutting-edge API development using JavaScript and Node.js; ideal for data-intensive real-time applications that run across multiple platforms. Key Features Build web APIs from start to finish using JavaScript across the development stack Explore advanced concepts such as authentication with JWT, and running tests against your APIs Implement over 20 practical activities and exercises across 9 topics to reinforce your learning Book Description Using the same framework to build both server and client-side applications saves you time and money. This book teaches you how you can use JavaScript and Node.js to build highly scalable APIs that work well with lightweight cross-platform client applications. It begins with the basics of Node.js in the context of backend development, and quickly leads you through the creation of an example client that pairs up with a fully authenticated API implementation. By the end of the book, you'll have the skills and exposure required to get hands-on with your own API development project. What you will learn Understand how Node.js works, its trends, and where it is being used now Learn about application modularization and built-in Node.js modules Use the npm third-party module registry to extend your application Gain an understanding of asynchronous programming with Node.js Develop scalable and high-performing APIs using hapi.js and Knex.js Write unit tests for your APIs to ensure reliability and maintainability Who this book is for This book is ideal for developers who already understand JavaScript and are looking for a quick no-frills introduction to API development with Node.js. Though prior experience with other server-

side technologies such as Python, PHP, ASP.NET, Ruby will help, it's not essential to have a background in backend development before getting started.

Node.js in Action Mike Cantelon 2014 " 'Node.js in Action' shows you how to build production-quality application. Clear introductions of key concepts and example-by-example coverage take you from setup to deployment." -- From the back cover

GITHUB ACTIONS IN ACTION Debashish Mohapatra 2026-04-20 GitHub Actions in Action The Complete Developer's Guide to Automating CI/CD Pipelines Are you ready to master GitHub Actions and automate your entire software delivery pipeline? In today's fast-paced development world, Continuous Integration (CI) and Continuous Deployment (CD) are no longer optional—they are essential. GitHub Actions in Action is your complete, hands-on guide to building powerful, scalable, and secure CI/CD pipelines using GitHub's native automation platform. Whether you're a beginner exploring DevOps or an experienced developer looking to optimize workflows, this book takes you from fundamentals to advanced real-world implementations—step by step. What You'll Learn

- Understand the core concepts of GitHub Actions—workflows, jobs, steps, and runners
- Write and manage workflows using YAML with confidence
- Automate builds, tests, and deployments with CI/CD best practices
- Configure triggers, events, and scheduling for fully automated pipelines
- Use and create custom GitHub Actions from scratch
- Secure your pipelines with secrets, environments, and permissions
- Build robust Continuous Integration pipelines with testing, linting, and caching
- Implement Continuous Deployment to AWS, Azure, GCP, and GitHub Pages
- Work with Docker, containers, and multi-platform builds
- Apply advanced techniques like reusable workflows, matrix builds, and concurrency control
- Strengthen security using OIDC, CodeQL, and supply chain protection
- Build real-world DevOps pipelines for web apps, microservices, and mobile applications

Who This Book Is For
Software Developers & Engineers
DevOps Engineers & SREs
QA Engineers & Automation Testers
Cloud Engineers & Platform Teams
Students and professionals learning CI/CD and GitHub Actions

Automate, and Deploy with Confidence From your first workflow to enterprise-grade automation pipelines, this book equips you with everything you need to become proficient in GitHub Actions and modern DevOps practices. If you want to save time, reduce errors, and deliver software faster, this is the only guide you need.

Learning GitHub Actions Brent Laster 2023-08-17 Automate your software development processes with GitHub Actions, the continuous integration and continuous delivery platform that integrates seamlessly with GitHub. With this practical book, open source author, trainer, and DevOps director Brent Laster explains everything you need to know about using and getting value from GitHub Actions. You'll learn what actions and workflows are and how they can be used, created, and incorporated into your processes to simplify, standardize, and automate your work in GitHub. This book explains the platform, components, use cases, implementation, and integration points of actions, so you can leverage them to provide the functionality and features needed in today's complex pipelines and software development processes. You'll learn how to design and implement automated workflows that respond to common events like pushes, pull requests, and review updates. You'll understand how to use the components of the GitHub Actions platform to gain maximum automation and benefit. With this book, you will: Learn what GitHub Actions are, the various use cases for them, and how to incorporate them into your processes Understand GitHub Actions' structure, syntax, and semantics Automate processes and implement functionality Create your own custom actions with Docker, JavaScript, or shell approaches Troubleshoot and debug workflows that use actions Combine actions with GitHub APIs and other integration options Identify ways to securely implement workflows with GitHub Actions Understand how GitHub Actions compares to other options

Learning Node.js Marc Wandschneider 2013-06-20 Learning Node.js A Hands-On Guide to Building Web Applications in JavaScript Node.js makes it far easier to create fast, compact, and reliable web/network applications and web servers, and is rapidly becoming indispensable to modern web developers. Learning Node.js brings together the

knowledge and JavaScript code you need to build master the Node.js platform and build server-side applications with extraordinary speed and scalability. You'll start by installing and running Node.js, understanding the extensions it uses, and quickly writing your first app. Next, building on the basics, you'll write more capable application servers and extend them with today's most powerful Node.js tools and modules. Finally, you'll discover today's best practices for testing, running Node.js code on production servers, and writing command-line utilities. Throughout the book, author Marc Wandschneider teaches by walking you line-by-line through carefully crafted examples, demonstrating proven techniques for creating highly efficient applications and servers. Build Node.js solutions that leverage your current JavaScript skills Master Node.js nonblocking IO and async programming Handle more requests and increase your application's flexibility Use and write your own modules Perform common JSON/web server tasks Use browsers to generate pages on the fly via Ajax calls and template libraries Simplify development with the express framework Create database back-ends using popular NoSQL and relational databases Deploy and run Node.js apps on Unix/OS X or Windows servers Take advantage of multiprocessor hardware Support virtual hosts and SSL/HTTPS security Test Node.js programs that mix synchronous, async, and RESTful server API functionality

Sails.js in Action Irl Nathan 2017-01-22 Summary Sails.js in Action is a comprehensive guide to building enterprise-capable web applications using Node and Sails. Written by the creators of the Sails.js framework, this book carefully introduces each concept, technique, and tool with real-world examples and crystal clear explanations. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Sails makes professional web development a breeze. This instantly familiar MVC framework automatically handles the tedious application boilerplate, so you can concentrate on developing features and creating business value. You get powerful tools for rapid API development, task automation, an ORM, and easy integration with any web, mobile, or IoT frontend. And because you're using Node.js, it's JavaScript all the way down. About the Book

Sails.js in Action is a comprehensive guide on how to build enterprise-capable web applications. Written by the creators of Sails.js, this book introduces each concept and technique with real-world examples and thorough explanations. As you read, you'll learn to build the backend of a typical web application while you explore real-time programming with WebSockets, security fundamentals, and best practices for building Sails/Node.js apps. What's Inside Creating the backend for a web, mobile, or IoT app Real-time programming with WebSockets User management, authentication, and password recovery Using Sails to autogenerate REST APIs Custom backend development and third-party API integrations About the Reader Readers should be comfortable with JavaScript and frontend web development. About the Author Mike McNeil is the creator of Sails.js. Irl Nathan is the producer of sailsCasts, a series focused on using Sails. Table of Contents Getting started First steps Using static assets Using the blueprint API Custom backend code Using models Custom actions Server-rendered views Authentication and sessions Policies and access control Refactoring Embedded data and associations Ratings, followers, and search Realtime with WebSockets Deployment, testing, and security

JavaScript: A Beginner's Guide, Fifth Edition John Pollock 2019-11-08 Get up and running on the latest JavaScript standard using this fully updated beginner's guide This hands-on, fast-paced guide shows, from start to finish, how to create dynamic Web pages complete with special effects using JavaScript. This edition contains updates for all major new features and the latest Web development techniques and practices. You will discover how to extend JavaScript's capabilities to the server side using Node.js. JavaScript: A Beginner's Guide, Fifth Edition begins by clearly explaining the fundamentals, including variables, functions, operators, event handlers, objects, arrays, strings, and forms. From there, the book moves on to more advanced techniques, such as debugging, accessibility, and security. Throughout, "Ask the Expert," "Try This," notes, tips, and self tests highlight salient points and aid in learning. Teaches, step by step, how to get started developing Web applications Features detailed examples and downloadable project files

Written by an experienced Web developer and JavaScript expert Dynamic HTML in Action Eric M. Schurman 1999 An all-in-one resource for building dynamic Web sites using the latest IE5 technology, this title clearly describes and illustrates Web authoring tools and tactics. All topics are covered in clear language with sample pages on the CD-ROM to make learning these new tools as engaging as the content Web users will eventually create.

Express in Action Evan Hahn 2016-04-01 Summary Express in Action is a carefully designed tutorial that teaches you how to build web applications using Node and Express. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Express.js is a web application framework for Node.js. Express organizes your server-side JavaScript into testable, maintainable modules. It provides a powerful set of features to efficiently manage routes, requests, and views along with beautiful boilerplate for your web applications. Express helps you concentrate on what your application does instead of managing time-consuming technical details. About the Book Express in Action teaches you how to build web applications using Node and Express. It starts by introducing Node's powerful traits and shows you how they map to the features of Express. You'll explore key development techniques, meet the rich ecosystem of companion tools and libraries, and get a glimpse into its inner workings. By the end of the book, you'll be able to use Express to build a Node app and know how to test it, hook it up to a database, and automate the dev process. What's Inside Simplify Node app setup with Express Testing Express applications Use Express for easy access to Node features Data storage with MongoDB Covers Express 4 and Express 5 alpha About the Reader To get the most out of this book, you'll need to know the basics of web application design and be proficient with JavaScript. About the Author Evan Hahn is an active member of the Node and Express community and contributes to many open source JavaScript projects. Table of Contents PART 1 INTRO What is Express? The basics of Node.js Foundations of Express PART 2 CORE Middleware Routing Building APIs Views and templates: Pug and EJS PART 3 EXPRESS IN

CONTEXT Persisting your data with MongoDB Testing Express applications Security Deployment: assets and Heroku Best practices *Node.js in Action, Second Edition* Bradley Cantelon 2017 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. 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 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, and Nathan Rajlich.

Node.js in Action Crapo Ted 2025-06-09 Master Node.js the Smart Way-Through Visual Learning and Real Projects! Are you tired of endless theory and coding tutorials that go nowhere? Node.js in Action is your fast-track guide to building lightning-fast, scalable apps-with hands-on projects and easy-to-grasp visuals that bring concepts to life. Whether you're a total beginner or looking to level up your backend skills, this book gives you real-world experience that sticks. Through step-by-step tutorials, interactive diagrams, and complete project builds, you'll not

only learn Node.js-you'll apply it immediately.

Mastering JavaScript Promises Muzzamil Hussain 2015-07-24 Key Features Book Description This book is for all the software and web engineers wanting to apply the promises paradigm to their next project and get the best outcome from it. This book also acts as a reference for the engineers who are already using promises in their projects and want to improve their current knowledge to reach the next level. To get the most benefit from this book, you should know basic programming concepts, have a familiarity with JavaScript, and a good understanding of HTML. What you will learn Get a complete overview of the promises paradigm and its advantages Discover the programming models that are used to build JavaScript Execute the asynchronous programming model in JavaScript and understand its usefulness in modern web development Employ promises in JavaScript to boost your project performance Apply the best practices of promises in JavaScript to your platform of choice Manage your JavaScript code in a more professional and maintainable manner Utilize promises effectively and efficiently in different domains and disciplines of software engineering Implement promises in WinRT, Node.js, jQuery, and Angular.js Who this book is for

Flex3 in Action Tariq Ahmed 2009-03-10 Chock full of examples, this easy-to-follow, hands-on tutorial goes beyond feature coverage and helps readers put Flex to work in real day-to-day tasks.

React in Action Mark Thomas 2018-05-28 Summary React in Action introduces front-end developers to the React framework and related tools. This clearly written, example-rich book begins by introducing you to React, diving into some of the fundamental ideas in React, and working with components. In the second section, you'll explore the different ways that data works in React as well as learning more about components. You'll also find several useful appendixes covering related topics like React tooling and the React ecosystem. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Facebook created React to help deliver amazing user experiences on a website with thousands of components and an incomprehensible amount of traffic. The same

powerful tools are available to you too! The key is a clever design for managing state, data flow, and rendering, so your application is easy to think about and runs smoothly. Add an incredibly rich ecosystem of components and libraries, and you've got a recipe for building web apps that will delight both developers and users. About the Book React in Action teaches you to think like a pro about user interfaces and building them with React. This practical book gets you up and running quickly with hands-on examples in every chapter. You'll master core topics like rendering, lifecycle methods, JSX, data flow, forms, routing, integrating with third-party libraries, and testing. And the included application design ideas will help make your apps pop. As you learn to integrate React into full-stack applications, you'll explore state management with Redux and server-side rendering, and even dabble in React Native for mobile UIs. What's Inside React from the ground up Implementing a routing system with components Server-side rendering in Node.js Working with third-party libraries Testing React components About the Reader Written for developers familiar with HTML, CSS, and JavaScript. About the Author Mark Thomas is an experienced software engineer who works daily with React, JavaScript, and Node.js. He loves clean code, beautiful systems, and good coffee. Table of Contents PART 1 - MEET REACT Meet React Our first component PART 2 - COMPONENTS AND DATA IN REACT Data and data flow in React Rendering and lifecycle methods in React Working with forms in React Integrating third-party libraries with React Routing in React More routing and integrating Firebase Testing React components PART 3 - REACT APPLICATION ARCHITECTURE Redux application architecture More Redux and integrating Redux with React React on the server and integrating React Router An introduction to React Native

Amazon Web Services in Action, Third Edition Andreas Wittig 2023-05-30 Master essential best practices for deploying and managing applications on Amazon Web Services. This revised bestseller is packed with techniques for building highly available and scalable architectures and automating deployment with Infrastructure as Code. Leverage globally distributed data centers to launch virtual machines with EC2

Store and archive large volumes of data with EBS, S3, and EFS Persist and query data with highly available and scalable database systems with RDS and DynamoDB Enhance performance with caching data in-memory with ElastiCache and MemoryDB Use Infrastructure as Code to automate your cloud infrastructure Secure workloads running in the cloud with VPC and IAM Build fault-tolerant web applications with ALB and SQS Automate common sysadmin tasks with Lambda, CLI, and SDK Build cloud-native applications based on containers with AppRunner, ECS, Fargate Thousands of developers have chosen Amazon Web Services in Action: An in-depth guide to AWS to help them succeed with the AWS cloud. Readers love this all-practical handbook for its complete introduction to computing, storage, and networking, along with best practices for all core AWS services. This revised third edition features new chapters on containerization, along with a variety of AWS innovations. You'll also learn how automating your infrastructure with IAC is a game changer for your cloud deployment, delivering a massive boost to efficiency and quality. About the Technology Amazon Web Services, the leading cloud computing platform, offers customers APIs for on-demand access to computing services. Rich in examples and best practices of how to use AWS, this Manning bestseller is now released in its third, revised, and improved edition. About the Book In Amazon Web Services in Action, Third Edition: An in-depth guide to AWS, the Wittig brothers give you a comprehensive, practical introduction to deploying and managing applications on the AWS cloud platform. With a sharp focus on the most important AWS tasks and services, they will save you hours of unproductive time. You'll learn hands-on as you complete real-world projects like hosting a WordPress site, setting up a private cloud, and deploying an app on containers. What's Inside Leverage globally distributed data centers to launch virtual machines Enhance performance with caching data in-memory Secure workloads running in the cloud with VPC and IAM Build fault-tolerant web applications with ALB and SQS About the Reader Written for mid-level developers, DevOps or platform engineers, architects, and system administrators. About the Author Andreas Wittig and Michael Wittig are software engineers and

consultants focused on AWS. Together, they migrated the first bank in Germany to AWS in 2013.

Automating Workflows with GitHub Actions Priscila Heller 2021-11-11 Build, test, and deploy code right from your GitHub repository by automating, customizing, and executing software development workflows with GitHub Actions Key Features Enhance your CI/CD and DevOps workflows using GitHub Actions Discover how to create custom GitHub Actions using Docker and JavaScript Get up and running with building a CI/CD pipeline effectively Book Description GitHub Actions is one of the most popular products that enables you to automate development tasks and improve your software development workflow. Automating Workflows with GitHub Actions uses real-world examples to help you automate everyday tasks and use your resources efficiently. This book takes a practical approach to helping you develop the skills needed to create complex YAML files to automate your daily tasks. You'll learn how to find and use existing workflows, allowing you to get started with GitHub Actions right away. Moving on, you'll discover complex concepts and practices such as self-hosted runners and writing workflow files that leverage other platforms such as Docker as well as programming languages such as Java and JavaScript. As you advance, you'll be able to write your own JavaScript, Docker, and composite run steps actions, and publish them in GitHub Marketplace! You'll also find instructions to migrate your existing CI/CD workflows into GitHub Actions from platforms like Travis CI and GitLab. Finally, you'll explore tools that'll help you stay informed of additions to GitHub Actions along with finding technical support and staying engaged with the community. By the end of this GitHub book, you'll have developed the skills and experience needed to build and maintain your own CI/CD pipeline using GitHub Actions. What you will learn Get to grips with the basics of GitHub and the YAML syntax Understand key concepts of GitHub Actions Find out how to write actions for JavaScript and Docker environments Discover how to create a self-hosted runner Migrate from other continuous integration and continuous delivery (CI/CD) platforms to GitHub Actions Collaborate with the GitHub Actions community and find technical help

to navigate technical difficulties Publish your workflows in GitHub Marketplace Who this book is for This book is for anyone involved in the software development life cycle, for those looking to learn about GitHub Actions and what can be accomplished, and for those who want to develop a new skill to help them advance their software development career. If you are new to GitHub and GitHub Actions in general, then this book is for you. Basic knowledge of GitHub as a platform will help you to get the most out of this book.

Node.js Design Patterns Mario Casciaro 2020-07-29 Learn proven patterns, techniques, and tricks to take full advantage of the Node.js platform. Master well-known design principles to create applications that are readable, extensible, and that can grow big. Purchase of the print or Kindle book includes a free eBook in the PDF format. Key Features Learn how to create solid server-side applications by leveraging the full power of Node.js 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 DescriptionIn 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 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 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 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 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.

Node Js In Action

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