



Practical Node.js

Building Real-World Scalable Web Apps

—
Second Edition
—

Azat Mardan

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Practical Node Js Building Real World Scalable Web Apps

Azat Mardan



Practical Node Js Building Real World Scalable Web Apps:

Practical Node.js Azat Mardan, 2018-11-03 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 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 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 Fully supported by a continuously updated source code repository on GitHub and with full color code examples learn what you can do with Node js and how far you can take it What You ll Learn Manipulate data from the mongo console Use the Mongoskin and Mongoose MongoDB libraries Build REST API servers with Express and Hapi Deploy apps to Heroku and AWS Test services with Mocha Expect and TravisCI Implement a third party OAuth strategy with Everyauth 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

Practical Node.js Jacob J. Peacock, 2015-08-08 Thought provoking and accessible in approach this updated and expanded second edition of the Practical Node js Building Real World Scalable Web Apps provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject s core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for advanced graduate level students We hope you find this book useful in shaping your future career Feel free to send us your enquiries related to our publications to info risepress pw Rise Press

Practical Node.js Azat Mardan, 2014-07-17 Practical Node js is your step by step guide to learning how to build a wide range of scalable real world web applications using a professional development toolkit Node js is an innovative and highly efficient platform for creating web services But Node js doesn t live in a vacuum In a modern web development many different components need to be put together routing database driver ORM session management OAuth HTML template engine CSS compiler and many more 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 As a web developer you ll work with a varied collection of standards and frameworks Practical Node js shows you how all those pieces fit together Practical Node js takes you from installing all the necessary modules to writing full stack web applications by harnessing the power of the Express js and Hapi frameworks the MongoDB database with Mongoskin and Mongoose Jade

and Handlebars template engines Stylus and LESS CSS languages OAuth and Everyauth libraries and the Socket IO and Derby libraries and everything in between The book 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

Introduction to JavaScript Programming Professional Level CPA John Kimani, Dr. James Scott, 2023-07-19

Introduction to JavaScript Manipulating Web Page Content with JavaScript Communicating with Web Servers Using JavaScript Object Oriented Programming in JavaScript Advanced JavaScript Programming Concepts Arrays and Objects Methods Control Structures and Functions in JavaScript Working with JavaScript Libraries and Frameworks

AI-Oriented Competency Framework for Talent Management in the Digital Economy Alex Khang, 2024-05-29

In the digital driven economy era an AI oriented competency framework AIoCF is a collection to identify AI oriented knowledge attributes efforts skills and experiences AKASE that directly and positively affect the success of employees and the organization The application of skills based competency analytics and AI equipped systems is gradually becoming accepted by business and production organizations as an effective tool for automating several managerial activities consistently and efficiently in developing and moving the capacity of a company up to a world class level

AI Oriented Competency Framework for Talent Management in the Digital Economy Models Technologies Applications and Implementation discusses all the points of an AIoCF which includes predictive analytics advisory services predictive maintenance and automated processes which help to make the operations of project management personnel management or administration more efficient profitable and safe The book includes the functionality of emerging career pathways hybrid learning models and learning paths related to the learning and development of employees in the production or delivery fields It also presents the relationship between skills taxonomy and competency framework with interactive methods using datasets processing workflow diagrams and architectural diagrams for easy understanding of the application of intelligent functions in role based competency systems By also covering upcoming areas of AI and data science in many government and private organizations the book not only focuses on managing big data and cloud resources of the talent management system but also provides cybersecurity techniques to ensure that systems and employee competency data are secure This book targets a mixed audience of students engineers scholars researchers academics and professionals who are learning researching and working in the field of workforce training human resources talent management systems requirement headhunting outsourcing and manpower consultant services from different cultures and industries in the era of digital economy

React Quickly Azat Mardan, 2017-08-20

Summary React Quickly is for anyone who wants to learn React.js fast This hands on book teaches you the concepts you need with lots of examples tutorials and a large main project that gets built throughout the book Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications

About the Technology Successful user interfaces need to

be visually interesting fast and flowing The React.js JavaScript library supercharges view heavy web applications by improving data flow between UI components React sites update visual elements efficiently and smoothly minimizing page reloads React is developer friendly with a strong ecosystem to support the dev process along the full application stack And because it's all JavaScript React is instantly familiar About the Book React Quickly is the tutorial for web developers who want to get started fast with React.js Following carefully chosen and clearly explained examples you'll learn React development using your existing JavaScript and web dev skills You'll explore a host of different projects as you learn about web components forms and data What's Inside Master React fundamentals Build full web apps with data and routing Test components Optimize React apps About the Reader This book is for developers comfortable building web applications with JavaScript About the Author Azat Mardan is a Tech Fellow at Capital One with extensive experience using and teaching JavaScript and Node and author of several books on JavaScript Node React and Express Table of Contents PART 1 REACT FOUNDATION Meeting React Baby steps with React Introduction to JSX Making React interactive with states React component lifecycle events Handling events in React Working with forms in React Scaling React components Project Menu component Project Tooltip component Project Timer component PART 2 REACT ARCHITECTURE The Webpack build tool React routing Working with data using Redux Working with data using GraphQL Unit testing React with Jest React on Node and Universal JavaScript Project Building a bookstore with React Router Project Checking passwords with Jest Project Implementing autocomplete with Jest Express and MongoDB APPENDIXES Appendix A Installing applications used in this book Appendix B React cheatsheet Appendix C Express.js cheatsheet Appendix D MongoDB and Mongoose cheatsheet Appendix E ES6 for success

Node.js Projects Jonathan Wexler, 2025-07-31 Whether you're a JavaScript beginner ready to build your first backend app or a self-taught developer looking to grow beyond tutorials Node.js Projects gives you the hands-on experience you need Through a series of self-contained projects ranging from content aggregators to secure password managers web scrapers ML-backed analysis and an AI-powered learning assistant you'll apply modern tools like Fastify MongoDB Redis JWT and Google's Gemini API in practical job-relevant ways With each chapter author Jonathan Wexler challenges you to think like an engineer emphasizing architectural thinking clean coding and iterative design You'll build confidence solving real-world problems while deepening your understanding of asynchronous programming API design security practices and scalable deployment patterns Confidently master async programming with async await and the Node.js event loop Effectively design scalable APIs using Fastify and modular routing patterns Reliably manage data with the filesystem MongoDB and CSV output Securely implement authentication flows with JWTs and environment-based configs Seamlessly integrate third-party APIs like OpenAI and Google Gemini Efficiently build real-time features with Redis schedulers and event-driven logic Smoothly transition from prototype to production with modern Node.js workflows

Real-World Next.js Michele Riva, 2022-02-28 Learn how to use Next.js for building web apps without compromising

performance user experience and developer happiness Key Features Develop scalable web applications using Next.js Use Next.js as a frontend for existing backends and e-commerce websites and understand how to implement it with any headless CMS Deploy Next.js on different platforms such as Vercel DigitalOcean and AWS or on your own server Book Description Next.js is a scalable and high performance React.js framework for modern web development and provides a large set of features such as hybrid rendering route prefetching automatic image optimization and internationalization out of the box If you are looking to create a blog an e-commerce website or a simple website this book will show you how you can use the multipurpose Next.js framework to create an impressive user experience Starting with the basics of Next.js the book demonstrates how the framework can help you reach your development goals You'll realize how versatile Next.js is as you build real world applications with step by step explanations This Next.js book will guide you in choosing the right rendering methodology for your website securing it and deploying it to different providers all while focusing on performance and developer happiness By the end of the book you'll be able to design build and deploy modern architectures using Next.js with any headless CMS or data source What you will learn Get up to speed with Next.js essentials and learn how to build apps quickly Understand how to create scalable Next.js architectures Choose between different rendering strategies such as client side rendering CSR static site generation SSG server side rendering SSR and incremental static regeneration ISR Write unit tests and integration tests in your Next.js application Discover the powerful routing system and Next.js built in components Design and build modern architectures with Next.js using GraphCMS or any headless CMS Who this book is for This book is for web developers who want to improve their React skills by building scalable and maintainable full stack applications using the modern Next.js web framework Intermediate level knowledge of ES6 React Node.js and REST is assumed

Building Real-Time Applications with Node.js Nolan Brackenridge, Talon Fitzgerald, 2025-06-14 Create High Performance Real Time Web Apps with Node.js Looking to build real time applications that can scale seamlessly Building Real Time Applications with Node.js is your go to guide for creating fast scalable web apps that update in real time all with the power of Node.js Whether you're a developer seeking to understand Node.js in depth or looking to enhance your real time app development skills this book takes you through the entire process from basic concepts to advanced techniques With step by step instructions and practical projects you'll master real time web technologies like WebSockets Socket.io and REST APIs to handle thousands of simultaneous users with ease What You'll Learn Inside Building Real Time Applications Understand the core concepts behind real time apps and how to use Node.js to create them Using WebSockets and Socket.io Set up WebSockets to allow real time bidirectional communication between the client and server Creating Scalable Architectures Design applications that can scale effectively to support a large number of concurrent users Developing APIs with Node.js Learn how to create robust REST APIs to handle requests efficiently Deploying Real Time Applications Understand how to deploy your real time apps to the cloud with platforms like Heroku and AWS Handling Data in Real Time

Use Redis MongoDB and other technologies to manage and store real time data efficiently Why This Book Stands Out Step by Step Projects Learn by building practical applications like a real time chat app collaborative drawing app and live sports score tracker Beginner to Advanced Whether you re just starting with Node js or have some experience this book covers both basic concepts and advanced real time features Focus on Scalability Learn how to optimize your applications to scale effectively and handle thousands of simultaneous users Comprehensive and Practical Clear explanations and hands on coding examples guide you through creating real world applications from scratch Grab your copy now and start building scalable real time web applications with Node js today **Node.js, Express.js & PostgreSQL for Beginners** Anthony J Miles,2025-11-13 Feeling overwhelmed by the world of backend development If you ve ever wanted to build your own web applications but felt intimidated by the complexity of the technology you re not alone Node js Express js PostgreSQL for Beginners is your friendly step by step guide to unlocking the power of modern web development without the stress No prior experience or technical background required just a curious mind and a willingness to learn Why This Book is Perfect for You This book is designed for absolute beginners who may feel lost when it comes to programming It takes you by the hand and guides you through every concept with warmth and clarity Whether you re looking to build your first web app understand how databases work or dive into the world of backend development you ll be amazed at how quickly you can go from feeling unsure to building real functional applications What You ll Learn Step by step guidance to set up and use Node js Express js and PostgreSQL the most powerful tools for modern web development Real world applications that you can showcase including how to build APIs connect databases and create dynamic data driven websites How to turn complex technical concepts into simple understandable pieces with hands on examples and plenty of practice exercises The importance of embracing mistakes as part of the learning process Every challenge is an opportunity for growth and you ll get there one step at a time Nurturing encouragement to help you build your confidence and feel proud of each small win By the end you ll not only have the skills to build your own projects but also the mindset to tackle bigger challenges with confidence Why This Book is Different Unlike other technical books that may leave you feeling overwhelmed Node js Express js PostgreSQL for Beginners is designed to make learning enjoyable and accessible Practical Skills You won t just memorize code you ll understand how it all works together You ll gain the skills you need to build full stack web applications connect servers to databases and write efficient APIs Real World Projects You ll work on mini projects that will give you something concrete to show for your efforts From your first Node js program to deploying your own live web application this book ensures you re always applying what you ve learned Confidence Building This book normalizes mistakes and focuses on growth not perfection You ll be encouraged to try fail and try again because that s how real learning happens What You ll Take Away Full Stack Web Development Learn how to create web servers and dynamic applications with Node js and Express js all backed by PostgreSQL for robust real world database management Foundational Knowledge Gain a deep understanding of backend

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Advanced Node.js Development Andrew Mead,2018-03-30 Takes you through creating your own API building a full real time web app securing your Node systems and practical applications of the latest Async and Await technologies It maps out everything in a comprehensive easy to follow package designed to get you up and running quickly Key Features Entirely project based and practical Explains the why of Node js features not just the how providing with a deep understanding and enabling you to easily apply concepts in your own applications Covers the full range of technologies around Node js npm MongoDB version control with Git and many more Book Description Advanced Node js Development is a practical project based book that provides you with all you need to progress as a Node js developer Node is a ubiquitous technology on the modern web and an essential part of any web developer s toolkit If you re looking to create real world Node applications or you want to switch careers or launch a side project to generate some extra income then you re in the right place This book was written around a single goal turning you into a professional Node developer capable of developing testing and deploying real world production applications There s no better time to dive in According to the 2018 Stack Overflow Survey Node is in the top ten for back end popularity and back end salary This book is built from the ground up around the latest version of Node js version 9 x x You ll be learning all the cutting edge features available only in the latest software versions This book delivers advanced skills that you need to become a professional Node developer Along this journey you ll create your own API you ll build a full real time web app and create projects that apply the latest Async and Await technologies Andrew Mead maps everything out for you in this book so that you can learn how to build powerful Node js projects in a comprehensive easy to follow package designed to get you up and running quickly What you will learn Develop test and deploy real world Node js applications Master Node js by building practical working examples Use awesome third party Node modules such as MongoDB Mongoose Socket io and Express Create real time web applications Explore async and await in ES7 Who this book is for This book is for anyone looking to launch their own Node applications switch careers or freelance as a Node developer You should have a basic understanding of JavaScript in order to follow this book This book follows directly on from Learning Node js Development but more advanced readers can benefit from this book without having read the first part

[Web Development with Go](#) Shiju Varghese,2015-12-30 Take a deep dive into web development using the Go programming language to build web apps and RESTful services to create reliable and efficient software Web Development with Go provides Go language fundamentals and then moves on to advanced web development

concepts and successful deployment of Go web apps to the cloud Web Development with Go will teach you how to develop scalable real world web apps RESTful services and backend systems with Go The book starts off by covering Go programming language fundamentals as a prerequisite for web development After a thorough understanding of the basics the book delves into web development using the built in package net http With each chapter you ll be introduced to new concepts for gradually building a real world web system The book further shows you how to integrate Go with other technologies For example it provides an overview of using MongoDB as a means of persistent storage and provides an end to end REST API sample as well The book then moves on to demonstrate how to deploy web apps to the cloud using the Google Cloud platform Web Development with Go provides Fundamentals for building real world web apps in Go Thorough coverage of prerequisites and practical code examples Demo web apps for attaining a deeper understanding of web development A reference REST API app which can be used to build scalable real world backend services in Go A thorough demonstration of deploying web apps to the Cloud using the Google Cloud platform Go is a high performance language while providing greater level of developer productivity therefore Web Development with Go equips you with the necessary skills and knowledge required for effectively building robust and efficient web apps by leveraging the features of Go

[Express.js Fundamentals: A Practical Guide to Building Web Applications with Node.js](#) Tran A, Express js Fundamentals provides a comprehensive hands on introduction to one of the most popular web frameworks in the JavaScript ecosystem This practical tutorial series takes you from your first Hello World server to building modular production ready applications What You ll Learn Set up and configure Express js applications from scratch Master routing patterns for handling HTTP requests GET POST DELETE and more Implement middleware for logging authentication and request processing Create modular maintainable code using Express Router Build RESTful APIs and web servers with clean architecture Handle errors gracefully and follow Node js best practices Perfect for JavaScript developers new to server side programming Front end developers expanding into full stack development Node js programmers seeking to master Express js Anyone building APIs web services or server applications Each chapter includes complete working code examples that you can run immediately No theoretical fluff just practical real world patterns you ll use in production The tutorials progress logically from basic concepts to advanced techniques ensuring you build a solid foundation before tackling complex topics Express js powers countless production applications worldwide from startups to Fortune 500 companies This book gives you the skills to join the millions of developers who rely on Express js for fast scalable web development Start building better web applications today

Mastering Node.js Caroline Davis, 2023-04-29 This comprehensive guide takes you on a journey from the basics of Node js to the advanced concepts and techniques needed to build enterprise level web applications With step by step instructions and practical examples you ll gain a deep understanding of Node js and its core libraries including Express Socket IO and more But Mastering Node js is more than just a technical manual It s designed to help you think like a Node js developer providing you with the skills and insights

needed to build complex applications that can handle heavy traffic and scale with ease From optimizing database queries to implementing security best practices this book covers all the critical areas of Node js development But what sets Mastering Node js apart is its focus on practical application Each chapter includes real world examples that demonstrate how to apply the concepts covered in the book to solve common web development challenges You ll learn how to build RESTful APIs handle websockets and integrate with third party services like AWS and Firebase Whether you re a seasoned developer looking to expand your skillset or a newcomer to Node js Mastering Node js is the ultimate guide to building scalable web applications With its comprehensive coverage practical examples and expert insights this book will help you take your Node js development to the next level Don t miss out on the opportunity to become a Node js expert and build high performance web applications Order your copy of Mastering Node js today [Building Scalable Apps with Redis and Node.js](#) Joshua Johanan,2014-09-25 If the phrase scalability sounds alien to you then this is an ideal book for you You will not need much Node js experience as each framework is demonstrated in a way that requires no previous knowledge of the framework You will be building scalable Node js applications in no time Knowledge of JavaScript is required **Building Scalable Web Apps with Node.js and Express: Design and Develop a Robust, Scalable, High-Performance Web Application Using Node.js, Express.js, TypeScript, and Redis** Ravi Kumar,Yamini Panchal,2024-06-24 Easy API Design Using Express js and Node js TypeScript Key Features Step by step instructions using TypeScript for efficient backend development on Node js enhancing code quality and maintainability Practical insights using Redis to implement efficient API caching methods optimizing performance and scalability Provides practical examples of API testing using Mocha and Chai ensuring robustness and reliability of the developed APIs Book DescriptionEmbark on a journey to become an expert in backend web development with this essential guide using Node js v20 Express js Redis and TypeScript The book covers foundational to advanced topics through one comprehensive example a project management system It ensures learning and application of skills in API caching with Redis API testing using Mocha and Chai and deployment on AWS This approach simplifies complex concepts and provides a practical learning trajectory With expert tips and best practices you ll create user friendly features like sign ups and project trackers Plus you ll learn how to make your apps faster with caching and add cool features like notifications Finally you ll ace testing and deploying your apps like an expert What you will learn Explore TypeScript s power and versatility for developing backend using Node and Express Learn effective strategies for planning and structuring your application to ensure scalability and maintainability Dive deep into building REST APIs for user management project handling and task tracking Explore the implementation of API caching to boost performance and efficiency Develop a notification module to enrich user interaction and experience within your application Master the art of thoroughly testing your APIs using industry standard tools and methodologies Acquire skills and best practices for deploying your application ensuring smooth operation in production environments Table of Contents1 Introduction to Node js 2 Introduction to

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Full-Stack Web Development THOMPSON. CARTER,2025-03-21 Take your web development skills to the next level with Full Stack Web Development Building Scalable Web Apps with React and Node js This hands on guide will teach you how to build dynamic real world web applications using two of the most powerful frameworks in the industry React and Node js Whether you re a beginner looking to break into web development or an experienced developer looking to enhance your full stack capabilities this book has everything you need We ll walk you through the process of creating scalable high performance web applications by mastering the essential technologies of React for frontend development and Node js for backend development Learn how to build responsive interactive user interfaces with React s component based architecture while leveraging Node js for handling requests managing data and powering your web application s backend Through practical examples you ll dive into RESTful API development database integration user authentication and deploying your app to the cloud This book covers not only the core concepts but also best practices for building maintainable and efficient full stack applications that can handle real world traffic Updated for 2025 Full Stack Web Development covers the latest tools libraries and best practices to ensure you re using modern techniques and staying competitive in the fast evolving world of web development

Learn Node. Js by Building 6 Projects Eduonix Learning Solutions,2018-03-30 This is an advanced practical guide to harnessing the power of Node js by creating 6 full scale real world projects from creating a chat application to an eLearning system Key Features Develop scalable and lightweight applications using Node js Learn how to interface Node js with other popular technologies such as MongoDB MySQL and more Your companion to master the Node ecosystem through six real world projects Book Description With its event driven architecture and efficient web services capabilities more and more companies are building their entire infrastructure around Node js Node has become a de facto part of web development that any serious developer needs to master This book includes six Node js projects that gradually increase in complexity You ll start by building a simple web server and create a basic website You will then move to create the login system blog system chat system and e learning system By creating and following the example projects in this book you ll improve your Node js skills through practical working projects and you ll learn how to use Node js with many other useful technologies such as ExpressJS Kickstart and Heroku What you will learn Create powerful applications using Node js Build scalable and lightweight web applications Use the Express Framework to build web applications Understand the coding principles behind practical web applications Understand the concepts of network programming Use Node js with other technologies including Kickstart and Heroku Use Node with database technologies Cassandra and MongoDB Who this book is for If you are a web developer or a student who wants to learn about Node js in a hands on manner this book will be perfect for you A basic understanding of HTML JavaScript and some front end programming experience is required

Node.js

Design Patterns Luciano Mammino, Mario Casciaro, 2025-09-25 An essential read for any JavaScript developer take full advantage of the Node.js platform and build reliable scalable web applications using design patterns Purchase of the print or Kindle book includes a free eBook in PDF format Free with your book DRM free PDF version access to Packt's next gen Reader Email sign up and proof of purchase required Key Features Gain a deep understanding of the Node.js philosophy its core components and the solutions in its ecosystem Avoid common pitfalls in applying proven patterns to create robust maintainable Node.js applications Enhance your development skills through a wealth of real world examples and case studies Book Description Node.js underpins much of modern web development reliably powering APIs and full stack apps across all industries Authors Luciano Mammino and Mario Casciaro offer a practical guide that unpacks the JavaScript runtime so you can write reliable high performance Node.js apps Building on the highly rated third edition this new edition adds fresh case studies and the latest Node.js developments newer APIs and libraries ESM improvements practical security and production tips and guidance on using Node.js with TypeScript It also introduces a new chapter on testing that gives you a full introduction to testing philosophy and practical guidance on writing unit integration and end to end tests giving you the confidence to write functional stable and reliable code Real world end to end examples throughout the book show how to build microservices and distributed systems with Node.js integrating production proven technologies such as Redis RabbitMQ LevelDB and ZeroMQ the same components you'll find in scalable deployments at companies of all sizes End of chapter exercises consolidate your understanding By the end of this Node.js book you'll have the design patterns mindset and hands on skills every serious Node.js professional needs to confidently architect robust efficient and maintainable applications What you will learn Understand Node.js basics and its async event driven architecture Write correct async code using callbacks promises and async await Harness Node.js streams to create data driven processing pipelines Implement trusted software design patterns for production grade applications Write testable code and automated tests unit integration E2E Use advanced recipes caching batching async init offload CPU bound work Build and scale microservices and distributed systems powered by Node.js Who this book is for This book is for you if you're a developer or software architect with basic knowledge of JavaScript and Node.js and want to get the most out of these technologies to maximize productivity design quality and scalability It'll help you level up from junior to senior roles This book is a tried and tested reference guide for readers at all levels Even those with more experience will find value in the more advanced patterns and techniques presented You're expected to have an intermediate understanding of web application development databases and software design principles

Node.js Design Patterns for Developers Haider Koele, 2025-07-30 Do you feel overwhelmed by code that's hard to read fix or grow Are you curious about Node.js but worry you don't have the technical background to build real applications You're not alone and you're exactly who this book was written for Node.js Design Patterns for Developers Build Scalable and Maintainable Applications is your friendly step by step guide to writing clean robust and modern Node.js code

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