Node.js Design Patterns

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Get the best out of Node.js by mastering a series of patterns and techniques to create modular, scalable, and efficient applications About This Book Dive into the core patterns and components of Node.js in order to master your application's design Learn tricks, techniques, and best practices to solve common design and coding challenges Take a code-centric approach to using Node.js without friction Who This Book Is For

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.

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
Understand the fundamental Node.js components and use them to their full potential
Untangle your modules by organizing and connecting them coherently
Reuse well-known solutions to circumvent common design and coding issues
Deal with asynchronous code with comfort and ease
Identify and prevent common problems, programming errors, and anti-patterns
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 fundamental principles and components that define the platform. It then shows you how to master asynchronous programming and how to design elegant and reusable components using well-known patterns and techniques. The book rounds off by teaching you the various approaches to scale, distribute, and integrate your Node.js application.

Node.js Design Patterns Details

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From Reader Review Node.js Design Patterns for online ebook

Joe Narvaez says

Excellent!

Anton Antonov says

Solid NodeJS book that goes through all the why and hows in NodeJS.

Starting from how NodeJS works, why it's fast and popular. How to write NodeJS-like code using callbacks and what are the styles. What makes a callback sync or async - common misconception is to think that callbacks make anything async while neglecting the internal implementation.

The book does justice in any design patterns. It does not go into huge lengths explaining every design pattern, instead it has a great balance between explanation, appliance and a practical example.

It's definitely in my top 3 NodeJS book. I highly recommend to anyone that has learnt the NodeJS foundations.

Deane Barker says

Very low level. Really opens your eyes as to the things you can do with Node.

Justin Hildreth says

Node.js Design Patterns (bit.ly/1Iph07Z) has really helped me deepen my understanding of Node.js development. I especially appreciate that the author makes a practice of not only explaining what to do, but also why (or in what circumstance) to do it. This helps the reader understand best practices, as well as equips the reader to make more informed development decisions when selecting among several possible approaches.
The examples presented in the book are great analogues to real-world problems, and often several approaches are demonstrated against the same application. This helps in seeing the strengths and weaknesses in different patterns. One example of this is the second chapter, in which multiple different strategies are employed for "taming" the asynchronous nature of Node. These different strategies are used to modify a web spider application, with a few varying constraints. I appreciated the balanced examination of different strategies in this chapter, rather than the author merely advocating one. This approach has allowed me to gain a wider perspective on approaching development with Node.
The book looks at a number of different concepts and features of Node, several of which I've been meaning to dive into. In particular, some ES6 functionality (such as promises and generators) is examined, which is interesting and helpful.
This is a fairly dense book. I found it helpful for myself to actually engage with the code samples, writing

them out and experimenting with them. This is a real benefit of the book as well, as there is a generous selection of quality code samples, which allow the reader to get hands-on experience with the concepts. All in all, I would recommend this book to anyone who is designing and writing applications in Node.js. It will provide a deeper understanding of the approaches available, and may well present some approaches one hadn't considered. I look forward to utilizing the perspective and information from this book in my own development.

Ivan says

a useful book, easy to read

Wilson Raul says

I love this book since it has many clear explanations of complex topics as deploying, event loop, async programming, module based programming. I really recommend to any body that wants that has some experience with node.js but wants to become an expert. must read book for any serious nodejs developer.

Oleg Stotsky says

A must read book for every node developer.

Padraig O'brien says

The best book on node out there

Steliyan Stoyanov says

This book contains great examples. It's not just a book about NodeJS, but you learn really practical stuff.

I highly recommend it, although it may not be for complete beginners.

Emmanuel Silva says

It's really one of the best at my book shelf.

This book describes the good practices used in large projects and how to solve them using node.js to create great applications.

Bassem says

Great book should be read by every Node.js developer.

Waldemar Neto says

Very interesting book, I just felt a lack of content about singletons and structural patterns, but in other hand this book has one of the most complete explanation about stream in Node that I ever read.

Brandon Ramirez says

Node.js Design Patterns does a good job of explaining complex topics in an understandable way. I have been developing with node.js for a few years now and consider myself vey knowledgable on the subject. Nevertheless, every page of this book has taught me something new and valuable.

The code examples are simple and brilliant.

One of the best aspects of node.js is the module ecosystem. The author does a great job of bringing 3rd party modules in to his explanations, but only after explaining what problem they solve. This practical approach is very easy to follow.

Streams are one of the most difficult to understand, but powerful features of node.js. Node.js Design Patterns has an entire chapter dedicated to streams which explains it visually. Most explanations I have seen for streams are so abstract they sound like they describe anything. Mario explains exactly what problem they solve, and therefore, why one would use streams over a buffered approach.

I have recommended this book to all of my programmer friends.

Alexander Potashev says

Nicely structured, covers many aspects of development of distributed systems, even beyond just Node.js.

P Greenberg says

I have been working with node.js for almost 2 years, and read several books on the subject, but this one is by far the best!

The author takes a bottoms-up approach to teaching node.js, and does an outstanding job covering everything from beginner topics like the event loop and callback patterns to advanced topics like scaling. In fact, of

every published work on node.js I've read, this is the first that covers scaling, an essential part of real-world applications.

The code examples in this book are also uniquely easy to follow, as the author uses footnotes to explain the important or confusing concepts. In addition, the examples explain the use case and construction of useful functions before revealing the node_module that already implements it, giving the reader an incredible depth of knowledge shared amongst few in the node community.

I will be purchasing multiple copies of this book (bit.ly/1Iph07Z) for our office and recommend it to anyone looking to learn more about node.js, from beginners to experienced developers.