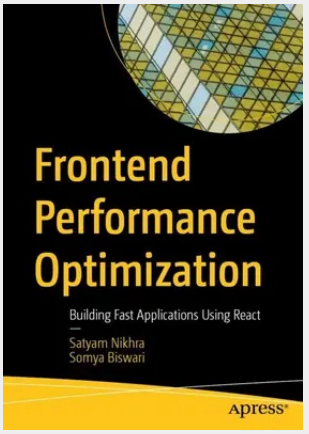
Nikhra / Biswari

Frontend Performance Optimization

Building Fast Applications Using React



Build faster React applications by mastering the performance techniques that actually matter in production. Speed is no longer a differentiator — users expect fast experiences, and even small delays reduce engagement and conversion. Yet most applications still ship with avoidable issues like large bundles, unoptimized images, and inefficient data fetching, problems that stay hidden until users feel them.This book shows you how to approach frontend performance as part of everyday engineering work. You will learn to measure what actually matters using Core Web Vitals, Lighthouse, and real user monitoring data — not just what looks good in lab tests. Following a systematic process, you will identify bottlenecks, understand their root causes, and apply targeted fixes that deliver real results in production.You will work through the full performance stack: JavaScript bundles, image delivery, React rendering behavior, data fetching, caching, and network. You will explore rendering strategies such as SSR, SSG, and streaming, learn which anti-patterns to avoid, and understand how to build a performance-aware engineering culture that keeps your application fast over time.By the end of this book, you will have a clear way to measure, diagnose, and improve performance that will impact not just your application but the way you think about frontend engineering in general.What You Will Learn ¿ Measure performance using Core Web Vitals, Lighthouse, and real user monitoring data¿ Diagnose and fix high-impact bottlenecks in React applications systematically¿ Optimize JavaScript bundles, images, fonts, and CSS for faster load times¿ Improve runtime efficiency through smarter rendering, data fetching, and caching strategiesWho This Book Is ForReact developers, tech leads, and architects working on production applications who want a practical and systematic approach to frontend performance.

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Auf Anfrage

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