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Titolo	Generative AI for Full-Stack Development : AI Empowered Accelerated Coding // by Shantanu Baruah
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ISBN	979-88-6882-074-8
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (171 pages)
Collana	Professional and Applied Computing Series
Disciplina	006.3
Soggetti	Artificial intelligence Web applications
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Chapter 1 - Introduction to Modern Web Development -- Chapter 2 - Environment Setup -- Chapter 3 - Foundation of Modern Web Development -- Chapter 4 - Frontend Development -- Chapter 5 - Database Management -- Chapter 6 - Gen AI in Web Development -- Chapter 7 - Designing a Travel Experience Website -- Chapter 8 - Application Configuration -- Chapter 9 - The Landing Page – HomePage.js -- Chapter 10 - Continent Page – North America -- Chapter 11 - Region Page -- Chapter 12 - Detail Travel Page -- Chapter 13 - Deployment and Future of Web Development.
Sommario/riassunto	Gain cutting-edge skills in building a full-stack web application with AI assistance. This book will guide you in creating your own travel application using React and Node.js, with MongoDB as the database, while emphasizing the use of Gen AI platforms like Perplexity.ai and Claude for quicker development and more accurate debugging. The book's step-by-step approach will help you bridge the gap between traditional web development methods and modern AI-assisted techniques, making it both accessible and insightful. It provides valuable lessons on professional web application development practices. By focusing on a practical example, the book offers hands-on experience that mirrors real-world scenarios, equipping you with relevant and in-demand skills that can be easily transferred to other projects. The book emphasizes the principles of responsive design, teaching you how to create web applications that adapt seamlessly to

different screen sizes and devices. This includes using fluid grids, media queries, and optimizing layouts for usability across various platforms. You will also learn how to design, manage, and query databases using MongoDB, ensuring you can effectively handle data storage and retrieval in your applications. Most significantly, the book will introduce you to generative AI tools and prompt engineering techniques that can accelerate coding and debugging processes. This modern approach will streamline development workflows and enhance productivity. By the end of this book, you will not only have learned how to create a complete web application from backend to frontend, along with database management, but you will also have gained invaluable associated skills such as using IDEs, version control, and deploying applications efficiently and effectively with AI.

**What You Will Learn**

- How to build a full-stack web application from scratch
- How to use generative AI tools to enhance coding efficiency and streamline the development process
- How to create user-friendly interfaces that enhance the overall experience of your web applications
- How to design, manage, and query databases using MongoDB.

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