

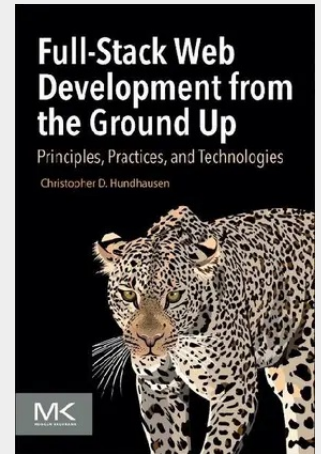
## Full-Stack Web Development from the Ground Up

Principles, Practices, and Technologies

Web development is one of the most highly sought after skills in the software industry today. Full-Stack Web Development From the Ground Up: Principles, Practices, and Technologies presents a systematic and modern treatment of this core area of software development, starting with the fundamentals of front-end development using HTML, CSS, and JavaScript; moving to front-end development with React; and culminating in server-side development using Express.js, Node.js, and MongoDB. Using the widely adopted MERN stack (MongoDB, Express.js, React.js, and Node.js), this undergraduate textbook explores full-stack web development through the step-bystep construction of a pedagogical version of SpeedScore (see <https://speedscore.org>), a sophisticated full-stack web application that supports the international speedgolf community. The book's emphasis is not on specific web development technologies, but rather on the underlying concepts, principles, and best practices of web development. This approach lays a solid foundation for students to become proficient web developers who can adapt to the rapidly changing landscape of web development technologies.

Full-Stack Development from the Ground Up: Principles, Practices, and Technologies addresses the growing need for a comprehensive upper-division computer science textbook that provides in-depth treatment of full-stack web development using the modern web development technologies that students are likely to encounter in industry. Professional full-stack web developers who are capable of developing both the front-end user interfaces and back-end databases and services for dynamic websites are in high demand. The book begins by laying a foundation in HTML, CSS and JavaScript-the building blocks of client-side web development.

It then explores one particular web development stack in detail: MERN, which stands for MongoDB, Express.js, React.js and Node.js. Together, these four technologies provide powerful support for full-stack web development in a single programming language-JavaScript. The crucial final step in the web development process is deploying apps to a server, so users can interact with them. This book simplifies deployment by focusing on just one web deployment environment: Amazon Web Services (AWS), and only those AWS tools that are absolutely necessary to deploy MERN applications.



**80,00 €**

80,00 € (zzgl. MwSt.)

vorbestellbar, Erscheinungstermin ca.  
Juli 2026

**Artikelnummer:** 9780323918848

**Medium:** Buch

**ISBN:** 978-0-323-91884-8

**Verlag:** Elsevier Science

**Erscheinungstermin:** 17.07.2026

**Sprache(n):** Englisch

**Auflage:** Erscheinungsjahr 2026

**Produktform:** Kartoniert

**Seiten:** 420

**Format (B x H):** 191 x 235 mm

