

# DANIEL MAILU

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Fullstack Developer with 1 year in software development, achieving a 50% reduction in hosting costs via cloud migration and enhancing user satisfaction by 20%. Proficient in Node.js, React.js, and CI/CD workflows.

## WORK EXPERIENCE

Fullstack developer  
Self Employed

Feb 2025 - Present  
Nairobi, Kenya

- Designed, developed, and deployed scalable full-stack web applications using the **MERN stack** (MongoDB, Express.js, React.js, Node.js), delivering client projects across e-commerce, SaaS, and portfolio domains.
- Created responsive, mobile-first frontends using **React.js**, **HTML5**, **CSS3**, and **JavaScript (ES6+)**, resulting in improved user experience and accessibility.
- Engineered secure and efficient backend systems with **Node.js** and **Express.js**, implementing features like user authentication, shopping carts, admin panels, and RESTful APIs.
- Utilized **MongoDB** and **MySQL** for flexible and reliable data storage and modeling.
- Applied **Agile methodologies**, including sprint planning and iterative development, to manage multiple client projects efficiently.
- Developed and tested APIs and frontend components using **Postman**, **Jest**, and **custom test suites** for quality assurance.
- Deployed and maintained applications using **Vercel**, **Render**, and **Railway**, integrating **Continuous Integration and Deployment (CI/CD)** pipelines.
- Collaborated directly with clients to gather requirements, suggest technical solutions, and deliver software within deadlines.
- Improved performance and SEO through code optimization and lazy loading, reducing page load time by up to 30%.
- Managed source control with **Git** and collaborated using **GitHub**, ensuring clean version history and codebase stability.

Fullstack Developer  
Freelancer

Feb 2024 - Present  
Nairobi, Kenya

Developed and optimized scripts using Node.js and Python to automate data-heavy and compute-intensive tasks, reducing manual workload and improving processing time. Built responsive and dynamic user interfaces with React.js, HTML5, CSS3, and JavaScript (ES6+), improving accessibility and user satisfaction across devices. Designed RESTful APIs and backend services using Express.js and Node.js, enabling seamless data flow between the frontend and MongoDB/MySQL databases. Conducted unit and integration testing using Jest, Postman, and custom test scripts to ensure application reliability and maintainability. Collaborated with developers and stakeholders to enhance software and hardware interfaces, improving overall system performance. Deployed applications using Vercel and managed code with Git/GitHub, following best practices in version control and CI/CD workflows. Worked closely with clients to gather requirements, recommend solutions, and provide updates on software design and development progress. Refined UI/UX components and navigation systems, boosting client sales by 5% through improved usability and customer engagement.

Assisted in the migration of legacy code to newer frameworks, enhancing maintainability and codebase stability while minimizing technical debt.

Worked on enhancing accessibility features, leading to a 20% increase in user satisfaction and compliance with accessibility standards.

Contributed to the adoption of modern development tools, reducing the time required for new feature implementation by 20%.

Spearheaded the migration to a cloud-based infrastructure, resulting in a 50% reduction in hosting costs and improved scalability.

Implemented automated testing, resulting in a 40% reduction in deployment time and ensuring a more reliable product.

Demonstrated strong problem-solving skills by resolving complex UI issues, leading to a 20% increase in user task completion rates.

Implemented a modular and scalable CSS architecture using BEM (Block Element Modifier) methodology, reducing CSS file size by 40% and making maintenance easier for future developers.


## EDUCATION

Software Engineering certificate  
Power Learn Project

Feb 2025 - Jul 2025

Designed and developed a fully responsive e-commerce website using React.js and Redux for state management, ensuring seamless user experience across all screen sizes. Implemented robust backend services with Node.js and Express.js, including user authentication, product management, cart functionality, and order processing. Created dynamic, component-based UI with modern HTML5 and CSS3, optimized for performance and accessibility on mobile, tablet, and desktop devices. Integrated API endpoints for real-time data interaction between frontend and backend, supporting smooth user interactions like adding to cart and checkout. Ensured application scalability and maintainability by applying clean architecture principles and modular code organization. Deployed and tested responsive design across various devices and browsers to guarantee consistent performance and layout.

PROJECTS

<b>Myshopping center</b> 	<b>Apr 2025 - Jul 2025</b>
<ul style="list-style-type: none"><li>Designed and developed a fully responsive e-commerce website using React.js and Redux for state management, ensuring seamless user experience across all screen sizes.</li><li>Implemented robust backend services with Node.js and Express.js, including user authentication, product management, cart functionality, and order processing.</li><li>Created dynamic, component-based UI with modern HTML5 and CSS3, optimized for performance and accessibility on mobile, tablet, and desktop devices.</li><li>Integrated API endpoints for real-time data interaction between frontend and backend, supporting smooth user interactions like adding to cart and checkout.</li><li>Ensured application scalability and maintainability by applying clean architecture principles and modular code organization.</li><li>Deployed and tested responsive design across various devices and browsers to guarantee consistent performance and layout.</li></ul>	

SKILLS

<b>Backend:</b> Node.js, Express.js, MongoDB, MySQL, REST APIs
<b>Testing:</b> Jest, Postman
<b>DevOps:</b> Git/GitHub, Vercel, Render, Railway, Docker, CI/CD
<b>Collaboration Tools:</b> Agile methodologies, Jira, Slack
<b>Other:</b> JWT Auth, Responsive Design, Python Automation
<b>Frontend:</b> React.js, Redux, HTML5, CSS3, JavaScript (ES6+)

CERTIFICATIONS

<b>Software Engineering certificate</b>
<b>Completed Essential in Software Engineering</b>
<b>Completed Entrepreneurship</b>
<b>Completed Data Analysis Using Python</b>
<b>Completed Technical course work</b>

LANGUAGES

<b>English • Swahili</b>
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ORGANIZATIONAL & VOLUNTEER EXPERIENCE

<b>Instructor Assistant</b>	<b>Jul 2025 - Present</b>
<b>Power Learn Project</b>	<b>Nairobi, Kenya</b>
<ul style="list-style-type: none"><li>Assisted lead instructors in teaching <b>web development fundamentals</b> including <b>HTML</b>, <b>CSS</b>, <b>JavaScript</b>, and introductory <b>React.js</b> to beginner-level students.</li><li>Provided one-on-one and group support to learners during practical coding sessions, ensuring clarity in concepts and debugging help.</li><li>Reviewed students' projects and assignments, offering constructive feedback and guidance to improve coding practices and logic.</li><li>Helped design and prepare instructional materials such as slide decks, demo code, and lab exercises aligned with the curriculum.</li><li>Encouraged inclusive participation and supported learners from diverse backgrounds, helping to foster a collaborative and engaging learning environment.</li><li>Monitored student progress and reported learning challenges or milestones to the lead instructor for better mentorship and pacing.</li><li>Promoted best practices in responsive web design, code readability, and version control using <b>Git/GitHub</b>.</li><li>Contributed to student success and course completion rates by improving learning outcomes and learner engagement.</li></ul>	