

MURIITHI DENNIS

Backend Developer

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[Linkedin](#) | [GitHub](#)

EDUCATION

Karatina University

Information Technology Bachelors Degree

Nyeri, Kenya

August 2021 - November 2025

ALX, Africa

Software Engineering Certification

Online

September, 2023 - February, 2025

Cisco Networking Academy

Ethical hacking and penetration testing Certificate

online

November 2025 - jan 2025

EXPERIENCE

onix-market.com | Penetration Tester

Kenya | 2023 - 2024

Conducting Security Assessments: Perform comprehensive penetration tests on various IT assets, including networks, web applications, mobile applications, and infrastructure, to identify security vulnerabilities.

Vulnerability Analysis: Analyze and interpret the results of penetration tests, security scans, and assessments to provide detailed reports outlining identified vulnerabilities and recommended remediation strategies.

Simulated Attacks: Plan and execute controlled simulated cyber-attacks to mimic real-world threats and assess the organization's ability to detect and respond to security incidents.

key libraries | Web developer

Kenya | 2022 - 2025

Full Stack Development: Engage in end-to-end development of web applications, including both front-end and back-end components, using the MERN stack.

Database Management: Design and implement MongoDB databases, ensuring efficient data storage, retrieval, and manipulation.

Server-side Development: Develop server-side logic using Node.js and Express.js to handle API requests and integrate with databases.

Client-side Development: Create interactive and responsive user interfaces using React.js, ensuring a seamless and engaging user experience.

API Development: Design and implement RESTful APIs to facilitate communication between the front-end and back-end components.

Code Optimization: Optimize application performance by identifying and resolving bottlenecks, improving code efficiency, and implementing best practices.

Testing and Debugging: Conduct thorough testing of applications, identify and fix bugs, and ensure the reliability and stability of the software.

Version Control: Utilize version control systems, such as Git, to manage and track changes in the codebase.

BITSYSTEMS LIMITED | Software Developer

Nakuru, Kenya | may 2024 - august 2024

Contributed to the development of scalable and efficient web applications using PHP and CodeIgniter framework

Collaborated with senior developers to design, implement, and test new features and functionalities

Gained hands-on experience with CodeIgniter's MVC architecture and PHP's object-oriented programming principles

Participated in code reviews and ensured adherence to coding standards and best practices

Troubleshooted and debugged issues, improving overall application stability and performance

Developed a solid understanding of database design and interaction using MySQL

Worked on multiple projects, honing skills in problem-solving, critical thinking, and teamwork

ALX Capstone Project | Back-End Developer

Online | december 2024 - february 2025

Tech Stack: MongoDB, Express.js, React, Node.js (MERN Stack)

Developed a full-featured e-commerce web application enabling users to browse products, manage carts, and complete purchases.

Implemented user authentication, secure checkout, and dynamic product filtering to enhance user experience.
Designed responsive user interfaces with React and Tailwind CSS for mobile and desktop devices.
Built RESTful APIs with Node.js and Express, and managed data storage with MongoDB.
Ensured smooth deployment and scalability through cloud-based hosting and version control with Git.

Karatina University | Developer

Nyeri, Karatina | January 2025 - April 2025

Tech Stack: MongoDB, Express.js, React, Node.js (MERN Stack), Tailwind CSS, Redux, JWT
Developed a full-stack web application to streamline patient referrals between doctors and hospitals.
Implemented role-based authentication for patients, doctors, and hospital admins using JWT.
Designed intuitive UI with React, Tailwind CSS, and Framer Motion to enhance user interaction.
Built RESTful APIs with Node.js and Express to manage appointments, referrals, and user data.
Integrated Redux for global state management and ensured secure, seamless navigation across roles.
Focused on improving accessibility and coordination in healthcare referrals across facilities.

SKILLS

Programming Languages:	Javascript, Python, C, HTML
Libraries/Frameworks:	Django, React, Express, Node.js, Tailwind CSS
Tools / Platforms:	Arch Linux, VSCODE, vim, Postman, Docker, Git, Github, REST APIs
Databases:	MongoDB, SQL

PROJECTS / OPEN-SOURCE

web frontend | [Link](#)

MERN tech stack

- With this project my aim was to develop a full stack e-commerce web application with React Node.js MongoDB and Express

react-portfolio | [Link](#)

React

Developed a personal portfolio website using React to showcase my projects and skills to potential employers and clients.

MEDREF | [Link](#)

MongoDB ReactJS ExpressJS NodeJS

Developed a Medical Referral and Appointment System for the final year project. Engineered backend services, integrated hospital-patient workflows, and implemented secure appointment scheduling with real-time data handling.

Lipa na Mpesa STK push | [Link](#)

Node.js ExpressJS

Implemented seamless Lipa na M-Pesa STK Push integration to enable instant mobile payments within the web platform.

CERTIFICATIONS

- Software Engineering FullStack - **ALX**