

SIMON JUMA

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TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL (PostgreSQL)

Frameworks: NestJS, React.js, Redux, Next.js, Node.js(Express), Flask, FastAPI, TensorFlow

Developer Tools: Git, GitHub, Docker, Azure, GCP, Postman

EDUCATION

Dedan Kimathi University of Technology

Bachelor of Science in Information Technology

Nyeri, Kenya

Sep. 2021-Present

EXPERIENCE

Software Engineer

Aug 2024 – Present

Britam Insurance PLC

Nyeri, Kenya

- Building and maintaining RESTful APIs with NestJS to power the Tree App, a digital platform promoting community-based tree planting initiatives.
- Designed and implemented backend modules for group management, event scheduling, and member activity tracking, ensuring scalable and maintainable architecture.
- Integrated PostgreSQL for structured data storage and efficient query performance across large datasets.
- Used Postman to test, debug, and validate API endpoints, ensuring reliability and proper data flow between client and server.
- Collaborated with frontend developers to integrate APIs seamlessly with the user interface and optimize request handling for faster response times
- Contributed to code reviews, documentation, and deployment workflows to maintain production-grade code quality.

Software Engineer

Jan 2024 – Jul 2024

Datani Insurance Agency

Nyeri, Kenya

- Built a full-stack insurance management application enabling agents to onboard clients, compare policies, and track renewals in real-time.
- Developed the frontend with React.js and Tailwind CSS, while building the backend with Node.js, Express, and MongoDB.
- Integrated authentication, notifications, and dynamic dashboards for better data visualization.
- Deployed the application and provided continuous feature updates based on user feedback.

PROJECTS

Insurance Agent App | *React Native, Node.js, Express, MongoDB*

- Developed a mobile application that allows insurance agents to manage clients, receive automated SMS alerts, and view policy analytics.
- Implemented secure API communication and intuitive UI for agents in remote areas.
- Garage Management System | React.js, Tailwind CSS, Node.js, Express, PostgreSQL
- Built a stock management platform for garage owners to track spare parts, purchases, and repairs in real-time.

- Implemented reporting dashboards and inventory validation logic to optimize stock control and prevent shortages.

E-commerce Platform | *MongoDB, Express.js, React.js, Node.js, Redux Toolkit*

- Developed a fully functional online store featuring product listings, authentication, cart management, and secure checkout.
- Designed RESTful APIs in Node.js + Express and integrated with MongoDB for scalable product, user, and order data storage.
- Implemented Redux Toolkit for predictable state management across user sessions, improving app responsiveness and maintainability.
- Built dynamic UI components with React.js and Tailwind CSS, ensuring a seamless shopping experience across devices.

Elimu Picha 2.0 | *Next.js, Node.js, Express, PostgreSQL, Tailwind CSS*

- Developed an AI-powered reading assistant designed to help dyslexic learners improve comprehension through image-assisted storytelling.
- Built an interactive chat-style interface, allowing students to engage naturally with stories and receive contextual visual cues.
- Integrated fonts optimized for dyslexia, enhancing readability and reducing cognitive strain for learners.
- Implemented backend services with Node.js, Express, and PostgreSQL for content management and user interaction storage.
- Focused on accessibility, inclusive design, and educational impact — merging technology with empathy to support literacy in learners with special needs.

LEADERSHIP AND ACHIEVEMENTS

Lead – Data Science & Artificial Intelligence Club, Dedan Kimathi University

- Spearheaded workshops, hackathons, and mentorship programs to promote AI literacy and applied machine learning among students.

Speaker – DevFest Mount Kenya 2025

- Delivered a session on AI-driven development and building scalable APIs for real-world applications.

Speaker - Global ai conference, 2025(Building RAG Pipelines)

Winner - Origin Fest Hackathon 2024 (AI for Community)

Finalist – BushHack Hackathon 2024 (AI for Agriculture)