

Emmanuel Kipkoech

Software Engineer | Full-Stack & Mobile Developer

Nyeri, Kenya

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Profile

Motivated and adaptable **Software Engineer** with hands-on experience in frontend, backend, and mobile application development. Strong foundation in building scalable, user-centered solutions using modern frameworks and cloud-ready architectures. Passionate about applying machine learning and software engineering principles to solve real-world and community-focused challenges in Kenya and beyond.

Education

Dedan Kimathi University of Technology

Bachelor of Science in Computer Science

Expected Graduation: 2025

Relevant Coursework: - Data Structures & Algorithms - Machine Learning - Distributed Systems - Database Systems - Software Engineering - Human-Computer Interaction

Capstone Project:

Forest Fire Detection & Reporting App using Machine Learning

Technical Skills

Programming Languages

JavaScript, TypeScript, Go, Java, Python

Frameworks & Libraries

React, React Native, Node.js, Express, Tailwind CSS

Databases

PostgreSQL, Supabase, MySQL

Cloud & DevOps

Docker, AWS (Foundational), CI/CD Concepts

Project Experience

Forest Fire Detection & Reporting App

- Designed and developed a mobile and web application for early detection, reporting, and verification of forest fires. - Integrated machine learning models to assist in fire detection and validation. - Built responsive user interfaces using React and React Native. - Focused on environmental protection and community safety use cases.

E-Commerce Microservices Platform

- Built a scalable microservices-based platform using Go for backend services. - Implemented frontend features using React, including product listings, filters, cart, and authentication. - Applied Docker and cloud deployment concepts for scalability and maintainability.

Soft Skills

- Problem Solving
 - Team Collaboration
 - Communication
 - Adaptability
 - Continuous Learning
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Interests

- Applied Machine Learning
- Environmental & Community Technology
- Mobile App Development
- Cloud Computing & Distributed Systems