

Collins Mwangi

Software Engineer & Data Science Student

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Summary

Data Science student with a passion for software engineering and a proven ability to build and deploy full-stack applications. Eager to leverage a strong foundation in React, Node.js, TypeScript, and data-driven problem-solving to contribute to innovative solutions in the fintech sector.

Experience

Software & Network Intern Apr 2025 – Aug 2025
Swiftel Fibre (ISP) Nairobi, Kenya

- Engineered and deployed a full-stack internal request management system using React, Node.js, and MySQL, streamlining communication and improving operational efficiency between staff and board members.
- Configured and managed MikroTik CCR/RB routers and PPPoE servers, directly supporting the ISP's core network infrastructure and client onboarding process.
- Provided technical support for network and router issues, collaborating with the customer service team to troubleshoot and resolve client problems effectively.

Projects

Request-Handler System
Live Demo | GitHub Full-Stack MERN Application

- Developed a secure internal tool with role-based access control (Admin vs. Employee) to manage company-wide requests. Built a RESTful API with Node.js/Express and TypeScript for robust, type-safe backend logic.

TechHaven E-commerce Site
Live Demo | GitHub Front-End Application

- Implemented a client-side cart system using `localStorage` and vanilla JavaScript, demonstrating strong foundational programming skills without reliance on frameworks.

ISP Website
Live Demo | GitHub Front-End Project

- Designed and built a modern, multi-page marketing website for a mock Internet Service Provider, focusing on clean UI/UX principles and clear information architecture.

Education

BSc, Data Science
University of Nairobi
Expected 2029

Cert. Web Development
Intl. Youth Fellowship

Skills

Languages
TypeScript, JavaScript, Python, SQL

Front-End
React, HTML5, CSS3, Tailwind

Back-End
Node.js, Express.js

Databases
MySQL, PostgreSQL, MongoDB

Developer Tools
Git, GitHub, Docker, Postman, CLI

Networking
MikroTik RouterOS, PPPoE Config