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PROFILE

Resourceful Full Stack Developer and digital systems specialist with hands-on experience designing and deploying solutions in healthcare, field operations, and productivity tools. Adept at building robust backends in Django and Node.js, modular frontends in React and Tailwind, and cloud-native deployments with containerized services. Proven track record deploying impactful software in real-world contexts including for Community Health Extension Workers for 2 years (CHEWs) in Makueni County. Certified in key technologies including Docker, Python, and PostgreSQL. ALX Software Engineering graduate adept in Backend Specialization with a strong foundation in scalable architecture and DevOps.

TECHNICAL SKILLS

Languages: Python, JavaScript,
Frontend: React, Tailwind CSS, HTML5/CSS3
Backend & APIs: Django REST Framework, JWT Auth, WebSockets
Databases: PostgreSQL, MySQL,
DevOps & Deployment: Docker, GitHub Actions, DigitalOcean
Cloud Services: AWS (Certified Developer – Associate), Vercel
Tools: Git, Linux CLI, VS Code
Workflow: Agile, Scrum, CI/CD, RESTful Design

PROJECTS

InteriorHealth App | Full Stack Developer | 2024

> A digital health logistics and ordering platform connecting rural patients to essential drugs via health workers and clinics.

Purpose: Addressed medicine accessibility challenges in interior regions by digitizing drug ordering, tracking, and payments.

Stack: Django REST API + React + PostgreSQL + WebSockets + Tailwind + Docker.

Payments: Integrated Flutterwave and M-Pesa for seamless transactions.

Deployment: Backend deployed on DigitalOcean, frontend on Vercel with CI/CD via GitHub Actions.

Access Control: Role-based authentication (Admin, Health Worker, Patient) using JWT.

Field Impact:

Actively used by CHEWs in Makueni County for medicine ordering.

Live-tested with 10+ users across multiple rural deployments.

Designed to scale across 2 underserved locations in Makueni, Kenya specifically Mbooni sub county by quater 4 of 2025.

Jobify | Developer & Systems Designer | 2024

 A job board platform designed to connect youth to verified internship and entry-level roles.

Purpose: To simplify the job search process and eliminate fraudulent listings for entry-level applicants.

Features: Job search filters, application tracking, and admin dashboard for posting and moderation.

Stack: Django backend, React frontend, PostgreSQL DB, Tailwind styling.

Architecture: RESTful API integrated with JWT authentication and role-based access (Admin/Applicant).

Goal: Enable talent discovery, especially for students and junior professionals.

Project Management App

A productivity tool for task assignment, project tracking, and team collaboration.

Purpose: Help teams organize and track projects through Kanban-style boards and task timelines.

Stack: Django REST Framework (API-first), React + Tailwind (frontend), PostgreSQL (DB).

Real-Time Collaboration: WebSocket support planned for live task updates and team chat.

Design Focus: Modular, component-based frontend for scalability and maintainability.

Deployment Plan: Cloud-native deployment with Docker + GitHub Actions CI/CD.

WORK EXPERIENCE

Healthy Entrepreneurs (NGO) – Kenya

IT Officer & Digital Systems Officer | 2023 – 2025

Deployed digital systems to support over 100+ Community Health Workers (CHWs).

Designed a mobile-first medical inventory tracking system tailored to field conditions.

Delivered end-user training, onboarding, and live support for app users across rural zones.

Reduced paper-based data errors by over 60% through custom digital workflows.

Acted as bridge between field operations and development teams for ongoing UX improvement.

EDUCATION

ALX Software Engineering Program – Backend Specialization
September 2021 – February 2024

Capstone: InteriorHealth App

Focus: Backend architecture, REST APIs, DevOps, authentication systems

Bachelor of Science in Emergency Management & Humanitarian Assistance
Masinde Muliro University of Science & Technology – Graduated 2023

CERTIFICATIONS

AWS Certified Developer – Associate (Completed)

Docker for Developers – Udemy

Google IT Automation with Python – Coursera

PostgreSQL for Everybody – University of Michigan

CS50x: Introduction to Computer Science – HarvardX

ACHIEVEMENTS

Selected as ALX Community Fellow for leadership and peer support

Built & deployed InteriorHealth MVP within 6 weeks

Personally onboarded 100+ CHWs onto mobile drug ordering system

Recognized for digitizing rural operations at Healthy Entrepreneurs

Featured contributor to open-source healthcare tooling discussions

LANGUAGES

English (Fluent)

Swahili (Native)

Luo (Native)

REFERENCES

Available upon request.