Nasr Hassan Mpalang'ombe

Full Stack Engineer

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PROFESSIONAL SUMMARY

Full stack engineer with a backend and platform focus, building reliable APIs, web platforms, and IoT systems. Core stack: Go, TypeScript, Laravel, PostgreSQL, Linux, and networking, with a focus on production reliability and measurable business outcomes.

EXPERIENCE

Backend Engineer - Switch Africa

Jan 2026 - Present

Building modern web platforms and digital products at Switch Africa.

- Designing and maintaining backend services across Switch Africa products
- Improving API reliability, performance, and deployment workflows
- Collaborating with product and frontend teams to ship new features

Next.js · React · TypeScript · Laravel · PostgreSQL

Software Engineer - Odamo Limited

Jan 2024 - Present

Building production-grade web solutions with modern stacks, performance optimization, and developer experience focus.

- Improved application performance by 40%
- Led migration to modern tech stack
- Implemented CI/CD pipeline

Next.js · React · TypeScript · Laravel · PostgreSQL · Docker

Founder - CodeGraphics

Jan 2022 - Present

Building smart, scalable, and innovative tech solutions across web, IoT, and automation.

- Launched 20+ successful projects
- Built IoT solutions for local businesses
- Mentored junior developers

React · Next.js · Node.js · Python · IoT · Arduino

SELECTED PROJECTS

RafikiSMS SDK - API & SDK

Official multi-language SDK for RafikiSMS gateway - simplifying SMS integration for developers across Tanzania.

TypeScript · Node.js · API Design · SDK

Clinic Management SaaS - Healthcare

Multi-tenant clinic management platform with patient records, appointments, billing, and analytics dashboard.

Laravel · React · MySQL · Docker · REST API

Uza360 - E-Commerce

Multi-vendor e-commerce platform enabling businesses to sell online with inventory management and payment processing.

Next.js · TypeScript · Laravel · PostgreSQL · Stripe

Smart Meter IoT - IoT

IoT-based smart electricity metering system with real-time consumption monitoring, remote disconnect, and billing integration.

Python · IoT · Arduino · Node.js · MQTT · InfluxDB

VICOBA - FinTech
Digital Village Community Banking platform - managing member contributions, loans, and savings for community-based financial groups.
Laravel · PHP · MySQL · Bootstrap

AfyaPapo - Healthcare
Digital health platform connecting patients with healthcare providers, featuring appointment scheduling, telemedicine, and health records.
React Native · Node.js · MongoDB · WebSockets

SmartLight - IoT
Smart lighting control system with automated scheduling, motion sensing, and remote management via mobile and web interfaces.
IoT · React · Node.js · MQTT · ESP8266

Tanzania GeoLocation API - API & SDK
Comprehensive REST API providing regions, districts, and wards data for Tanzania - useful for location-based applications.
REST API · JSON · Tanzania Geo Data

TECHNICAL SKILLS

Languages & Runtimes: Go, TypeScript, JavaScript, Python, PHP, Dart, Node.js
Frontend: Next.js, React, React Native, Flutter, Tailwind CSS, Ant Design, Framer Motion, shadcn/ui, Vite
Backend: Laravel, Express.js, Fiber, Django REST, FastAPI
Databases & Storage: PostgreSQL, MySQL, MongoDB, Redis, SQLite
DevOps & Infrastructure: Docker, Docker Compose, Nginx, Git, GitHub Actions, MinIO
AI & Machine Learning: OpenAI, LangChain, TensorFlow Lite, RAG
APIs & Integrations: WebSocket, JWT, OAuth 2.0, Stripe, REST APIs
IoT & Hardware: Arduino, MQTT, ESP8266, IoT Protocols
Mobile: Expo, Kotlin