

Alex Ndungu

CTO / Software Engineer / ML Engineer

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Experience-first resume

Systems-oriented software engineer building multi-tenant SaaS platforms, backend workflows, and machine-learning powered products. Strongest in backend architecture, relational modeling, production execution, and domain-aware product thinking.

EXPERIENCE

Chief Technology Officer | Harlem Manage

Current | Kenya-first PropTech SaaS

- " Leading architecture and product direction for a multi-tenant real estate operating system with strict organization isolation, RBAC, financial workflows, and embedded AI execution.
- " Defined a full-stack architecture across Next.js, Django REST Framework, and PostgreSQL for organizations, properties, units, tenants, ledgers, and operational roles.
- " Embedded Akoko as a role-aware intelligence layer for owners, caretakers, tenants, and guards with escalation logic and Kenya-first operational context.

Software Engineer | Savannah Informatics

Current | Nairobi, Kenya

- " Building production informatics systems with emphasis on backend services, structured workflows, maintainability, and delivery discipline.
- " Contributing to data-driven application flows that support real operational use cases and enterprise-style engineering practices.

Software Engineer Intern / Contract | E&M Tech

3 months | Fintech

- " Worked on banking data systems and transaction-oriented backend workflows in a reliability-sensitive fintech environment.
- " Gained hands-on exposure to financial data pipelines, correctness constraints, and reliability-first engineering practices.

SELECTED PROJECTS

Harlem Manage

Multi-tenant REOS - Akoko AI

Flagship product case study covering multi-tenant SaaS architecture, access-controlled AI, M-PESA-first financial workflows, and operational role design.

ML Search Engine

CORE SKILLS

Backend: Django, DRF, REST APIs, PostgreSQL, MySQL, Redis, RabbitMQ

Frontend: React, Next.js, TypeScript, JavaScript, HTML, CSS

ML / AI: scikit-learn, TensorFlow, TF-IDF, similarity models, OpenAI API

Tools: Git, Linux, Docker, Grafana, Sentry, GlitchTip

FOCUS

- " Multi-tenant SaaS architecture
- " Backend systems and APIs
- " Relational data modeling
- " ML retrieval and recommendation
- " Production-minded delivery

LINKS

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