

Alex Ngari Weru

Full-Stack Developer

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Profile

Full-stack engineer experienced in backend development, API engineering, Linux server management, and secure system deployment. Hands-on experience supporting government systems (UFAA, IEBC) and building scalable software for businesses and institutions.

Core Skills

- Full-Stack Development (Python, PHP, Java, JS)
- API Design Backend Architecture
- Linux Server Administration
- CCTV/IP Camera Installation
- Database Design (MySQL, MariaDB)
- DevOps, Automation, Bash scripting

Programming Skills

Python	9/10
Java	9/10
HTML/CSS/JS	9/10
PHP	8/10
SQL / DB Design	9/10
C	7/10
C++	7/10
C#	6/10
LaTeX	8/10

Experience

ICT Assistant / System Support — UFAA 2024–2024 *Government Authority*

- Supported backend systems secure data workflows.
- Automated processes to improve operational efficiency.
- Participated in system security improvements.
- Reviewed handled unclaimed financial asset data.

Election Technology Support — IEBC 2022 *National Elections*

- Configured KIEMS kits ensured polling-day uptime.
- Supported secure data transfer device troubleshooting.
- Maintained digital system integrity during elections.

Full-Stack Engineer — Freelance 2021–Present

- Built full systems: dashboards, APIs, automation tools.
- Delivered solutions for SMEs, schools agriculture.
- Managed deployments, hosting Linux server setups.

Major Projects

Medical RAG AI System (Python, FAISS) — 2024 Built a retrieval-augmented generation pipeline for medical dataset search.

Farmer Portal Backend (PHP, MySQL) — 2023 Designed authentication, crop logs, product listings secure API access.

CCTV / IP Camera Deployment — 2022 Installed HikVision/Dahua systems, configured NVRs optimized networks.

Interests

- AI Automation
- Linux Systems
- Cybersecurity
- Networking
- Agriculture

Education

BSc Information Technology — Dedan Kimathi University *Completed 2026*

Diploma in Software Development — 2020–2023
Certificate in ICT — 2018–2020

Chinga Boys High School — Completed 2021
Snow View Primary School — Completed 2016

Certificates

- Python Developer Certification (2023)
- Networking Basics (2022)
- Linux Systems (2021)

Languages

English — Fluent (C2) **Swahili** — Native