FREDRICK NYANG'AU

Aspiring Backend Software Engineer

Nakuru, Kenya | +254 746 730 585

nyangaufredrick443@gmail.com | linkedin.com/in/fredricknyangau | github.com/fredricknyangau

PROFESSIONAL PROFILE

Motivated Information Technology Graduate (Dec 2025) actively transitioning into **Backend Software Engineering**. While my university background covered full-stack basics, I am currently dedicating my personal time to mastering **Python (FastAPI)**, **PostgreSQL**, and **Linux** environments. I am a self-driven learner who leads a peer study group, looking for a junior role or internship where I can contribute to backend development while learning from experienced engineering teams.

TECHNICAL SKILLS

- **Primary Languages:** Python (Focus), SQL, JavaScript (Basic).
- **Frameworks:** FastAPI (Currently building projects), Express.js (Academic usage).
- **Databases:** PostgreSQL (Relational), MongoDB.
- **DevOps & Tools:** Docker (Containerization), Linux (Ubuntu 24.04), Git/GitHub, VS Code.
- **Core Concepts:** REST API Design, Basic System Administration, and Data Structures.

SOFT SKILLS

- **Self-Learning:** Proven ability to pick up new technologies (FastAPI, Docker) without formal instruction.
- **Leadership:** Experience organizing and leading peer learning groups.
- **Problem Solving:** Strong logical thinking skills developed through coding algorithms.
- **Communication:** capable of explaining technical concepts to non-technical users (gained during Huduma Centre internship).

PORTFOLIO PROJECTS

These projects demonstrate my self-learning journey and practical coding ability.

KukuFiti – Broiler Farm Management System | *Python, FastAPI, PostgreSQL*
- **What I built:** A backend system to help farmers track feed, mortality, and profit margins.
- **Technical Achievement:** Implemented a REST API using **FastAPI** to handle daily data entry.
- **Learning Goal:** To master database relationships in **PostgreSQL** and perform backend calculations.

Wi-Fi Billing Automation System | *Python, FastAPI, Docker*
- **What I built:** A backend service to manage internet vouchers and expire them automatically.
- **Technical Achievement:** Implemented **JWT authentication** to secure the API and containerized the app using **Docker**.
- **Learning Goal:** To understand authentication flows and how to deploy apps on a **Linux** server.

TraceHub – Campus Lost & Found | *React, Node.js (University Team Project)*
- **Role:** Team Lead (4 Members).
- **What I built:** Engineered the search logic to help students find lost items by category and date.
- **Key Takeaway:** Gained experience in managing a team, assigning tasks, and resolving Git merge conflicts.

WORK EXPERIENCE

ICT Intern

Huduma Kenya Secretariat, Nakuru | Jan 2025 – Apr 2025
- Provided Level 1 technical support, troubleshooting network and hardware issues for staff.
- Assisted citizens in accessing government digital services (e-Citizen), requiring patience and clear communication.
- Supported the IT department with data entry and system maintenance tasks.
- *Gained valuable exposure to a professional office environment and standard operating procedures.*

EDUCATION

Bachelor of Science in Information Technology

Kabarak University, Nakuru, Kenya | Graduated: Dec 2025
- **Relevant Units:** Distributed Systems, Data Structures & Algorithms, Object-Oriented Programming (Java), Database Management Systems, Software Engineering.

COMMUNITY & LEADERSHIP

Lead Learner | *Backend Engineers 2026 Peer Group*
- Founded a small technical study group to focus on advanced backend concepts.
- I organize weekly meetings to review code, share learning resources, and maintain motivation among peers.

LANGUAGES

- **English:** Full Professional Proficiency.
- **Kiswahili:** Native Proficiency.

REFEREES

- **Available upon request.**