FREDRICK NYANG'AU

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EDUCATION

Kabarak University   **Nakuru, Kenya**

B.S. in Information Technology   *Expected Graduation, Dec 2025*

- o **Concentrations:** Software Development
- o **GPA:** N/A
- o **Related Coursework:** Data Structures & Algorithms, Objects- Oriented Programming, Machine Learning, Artificial Intelligence, System Analysis & Design, Computer Networks, Mobile Development

EXPERIENCE

Huduma Centre   **Nakuru, Kenya**

ICT Intern   *Jan 2025 – April 2025*

- Assisted in troubleshooting and maintaining computer systems and network infrastructure for public service operations
- Helped digitize physical records and assisted with database entry using Microsoft Excel and Access
- Supported automation efforts by writing basic scripts to enhance reporting and document processing workflows

PROJECTS

African Music Instruments Archive – Web App (React, MongoDB, Cloudinary)

2024 – Ongoing

- Built a searchable digital archive for traditional African instruments with media upload support
- Implemented admin and contributor dashboards with protected access and role-based permissions
- Integrated Cloudinary for media uploads (images, sound, and video), and used TanStack Query for data fetching

Ukulima App – Personal Project (Flutter, Firebase)

2025

- Developed a modular mobile app to help farmers manage livestock, track disease, and monitor production
- Integrated Firebase for authentication and data storage
- Designed an intuitive dashboard for farmers using Flutter widgets and provider state management

Lost & Found System – Kabarak University

Team Project, 2025

- Contributed to building a full-stack lost and found platform with React, Node.js, and MongoDB
- Designed student and security dashboards to report, claim, and manage items
- Developed item reporting form with file uploads and validation

ACTIVITIES AND LEADERSHIP

Tech Lead – Final Year Project Team

- *Coordinating a 4-member team for a university-supervised project with monthly progress demos and code reviews.*

Open-Source Contributor

- *Actively contribute to GitHub projects focused on African culture preservation and web accessibility.*

SKILLS

Programming: JavaScript(Node.js, React.js), HTML/CSS, SQL, MongoDB, Python, Dart (Flutter), TypeScript

Tools & Technologies: Android Studio, VSCode, PyCharm, AWS, Git, Express, Firebase, Cloudinary, Vite, Tailwind CSS, shadcn/ui, REST APIs