



TYLLEN AZIZ ALUGO

Information technology

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Professional Summary A motivated and detail-oriented IT graduate with strong skills in software development, mobile applications, and system automation. Highly experienced in building real-world systems including POS systems, rental management apps, and AI-powered solutions. Skilled in React, React Native, Node.js, Python, and database management. Passionate about developing reliable, user-friendly systems and ready to contribute effectively in a professional IT environment.

EDUCATION

Mount Kenya University Bachelor of Science in Information Technology (Second Class Honours) 2022 – 2025 (Graduated in 2025)

- Gained solid expertise in network security, software development, system analysis, and database management.
- Developed proficiency in programming languages such as Python, Java, JavaScript, and C++.
- Hands-on experience with cybersecurity practices, cloud computing, and modern IT infrastructure.
- Strong foundation in database systems, system design, and the Microsoft Office Suite.

SKILLS

Programming Languages: JavaScript, Python, Java, C++, HTML, CSS

Mobile & Web Development: React, React Native (Expo), Node.js, Flask, Tailwind CSS

Networking & Security: Cybersecurity principles, network security, system analysis

Database Management: MySQL, PostgreSQL, Mongo DB

Software & Tools: Git, GitHub, VS Code, Microsoft Office Suite, cloud computing tools

Problem-Solving: Analytical thinking, debugging, troubleshooting IT issues

Communication & Teamwork: Excellent interpersonal skills, effective collaboration in team environments.

PROJECTS & PRACTICAL EXPERIENCE

Sangara Wholesalers Management System

- Built a full inventory and sales management system to streamline operations for Sangara Wholesalers.
- Implemented product tracking, stock updates, automated reporting, and secure user roles.
- Improved business efficiency by digitizing daily manual tasks.

Rental Management & Billing Application

- Developed a mobile & web system for landlords to manage tenants, update bills, and send automated reminders.
- Included tabs for pending bills, updated bills, and sent bills to simplify workflow.
- Enhanced accuracy and removed manual record keeping.

Smart Pest Management System (AI-Powered)

- Developed a mobile app that detects pests using an AI model built in PyTorch and OpenCV.
- Integrated a React Native frontend with a Flask backend deployed on Render.
- Helps farmers receive instant pest identification and treatment recommendations.

Student Management System

- Built a Python + MySQL system to manage student registration, records, and reports efficiently.

Cybersecurity Awareness Program

- Researched and analyzed common threats, vulnerabilities, and best preventive measures.

Simple Web Application

- Designed a responsive website using HTML, CSS, and JavaScript to enhance user experience and UI skills.

TECHNICAL STRENGTHS

- Full-stack development
- Mobile apps (React Native, Expo)
- API development
- UI/UX implementation
- Database design

PERSONAL ATTRIBUTES

- Detail-oriented and motivated to learn new technologies
- Strong analytical and problem-solving skills
- Adaptable and quick to learn in fast-paced environments
- Reliable, organized, and focused

HOBBIES

- Gaming
- Football
- Chess

REFERENCES

Tyrus Kirongo, IT specialist, Kiambu County Headquarters
tyruskirongo@gmail.com, 0793982097

Brian Paul, IT specialist, Kiambu county headquarters
manyabrianpaul@gmail.com, 0794779015

PROJECTS

2025 – 11/2025

<https://expo.dev/artifacts/eas/viLc1eUoWiQqBAmMd9YNGW.apk>

Rental Management & Billing App

Mobile & Web Developer

- Developed a full system that helps landlords manage tenants, update bills, send reminders, and track payments.
- Included automated bill reminders, tenant profiles, and admin dashboards.
- Built with **React Native** for mobile and **Flask/Node backend** for API services.
- Added features like:
 - Bills updated by landlord
 - Reminder notifications
 - Tabs for pending, updated, and sent bills
- Improved workflow by replacing manual record keeping with a fully digital system.

2025

<https://sangarawholesalers.vercel.app/#/dashboard>

A pos system

- Designed and developed a complete inventory and sales management system for Sangara Wholesalers.
- Implemented product tracking, stock updates, automated reports, and user-role management.
- Built the backend using **Node.js/Express** (or your backend tech), with a responsive frontend using **React**.
- Integrated secure authentication and real-time database updates.
- Improved business operations by reducing manual work and increasing accuracy in sales records.

2025 – 09/2025

GradePoa – Student Grading System

GradePoa – Student Grading System

Frontend & Backend Developer

- Created a grading automation system for schools with secure login, student records, and grade reports.
- Backend hosted on Render, frontend on Vercel for fast access.
- Reduced manual grading errors by automating calculations and report generation.

Project Name: Kinga – AI-Powered Smart Agriculture System 

Pest management system

this is the link for downloading the Android app:

<https://expo.dev/accounts/tyllen001/projects/kinga-pest-control/builds/2ccfaa3a-8250-45dc-be1d-8898d4634232>  and the link to the website <https://kinga-web.vercel.app/> 

Full-Stack Development: Built a cross-platform mobile app (**React Native/Expo**) and admin dashboard (**React/Vite**) connected to a **Python Flask** backend.

- **AI Integration:** Engineered a **PyTorch CNN (ResNet18)** model to detect 10 crop pests with real-time confidence scoring.
- **Database & Cloud:** Managed a **MySQL** database on **Clever Cloud** and deployed the backend API via **Render**.
- **Key Features:** Implemented secure User Authentication (OTP/Email), bilingual support (English/Swahili), and Text-to-Speech accessibility.

LANGUAGES

English



Very fluent and eloquate in articulating words also speaks with confidence.

Kiswahili



Very fluent and eloquant

ACHIEVEMENTS

09/2025 – 11/2025

Nairobi

Achievements

- Developed and deployed 4 complete systems used in real environments.
- Built an AI pest detection app as part of final year project.
- Built a rental management app as a hobby just to improve my skills.
- Built a POS system to improve my skills.
- Create a students revision website for university students to improve learning.
- Successfully deployed 3 applications using Vercel, Expo, and Render.