Tyllen Aziz Alugo

Full-Stack Software Developer | Co-Founder | AI & Backend Enthusiast

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PROFILE

Professional Summary

Information Technology graduate and full-stack software developer with 1+ year of professional experience building and deploying real-world web, mobile, backend, and data-driven systems. Co-founder of **Nextvijo Software Solutions**, where I have delivered client systems currently in active use, including POS platforms and Hospital Management systems. Experienced across the full development lifecycle — from requirements gathering and architecture to deployment and maintenance. Skilled in Python, JavaScript, React, React Native, Node.js, Flask, and modern database systems, with expertise in AI integration, cloud deployment, and full-stack application delivery. Passionate about creating reliable, scalable software that solves real business problems.

EDUCATION

Mount Kenya University,   2022 – 2025 | Thika
Bachelors of Science in information Technology
Second Class Honours
- Relevant coursework: Software Development, Database Systems, System Analysis & Design, Networking, Distributed Systems, Mobile Application Development
- Strong foundation in database systems, system design, and the Microsoft Office Suite.

SKILLS

- **Programming Languages:** Python, JavaScript, Java, C++, SQL
- **Full-Stack Development:** React, React Native (Expo), Node.js, Express, Flask, REST API Development
- **Frontend:** HTML, CSS, Tailwind CSS, Responsive UI Design
- **Backend & APIs:** API Design, Authentication, Server Logic, Integration Services
- **Databases:** MySQL, PostgreSQL, MongoDB, Database Design & Modeling
- **AI & Data:** PyTorch, OpenCV, CNN Model Integration, Data Processing
- **Tools & Platforms:** Git, GitHub, Postman, VS Code, Vercel, Render, Cloud Deployment

PROFESSIONAL EXPERIENCE

Co-Founder & Full-Stack Software Developer — Nextvijo Software Solutions
Jan 2025 – Jan 2026
- Built and deployed full-stack web and mobile applications for business and institutional clients
- Delivered production systems including POS and Hospital Management platforms currently in active use
- Designed and developed REST APIs with Node.js and Flask
- Developed responsive frontends with React and cross-platform mobile apps with React Native (Expo)
- Designed and managed MySQL and MongoDB databases
- Led system architecture, feature development, testing, deployment, and client support

IT Attachment — Nairobi City Water & Sewerage Company
- Supported IT operations, system maintenance, troubleshooting, and network tasks
- Assisted with monitoring, configuration, and issue resolution across enterprise systems
- Gained hands-on exposure to enterprise IT workflows and technical support

PROJECTS

Projects
POS & Inventory Management System — Sangara Wholesalers
Tech: React, Node.js, Express, MySQL
Impact: Built a full sales and inventory platform with role-based access. Automated product tracking, stock control, and reporting, reducing manual record-keeping and improving operational accuracy by 50%.
Hospital Management System
Tech: React, Node.js, Express, PostgreSQL
Impact: Developed a hospital operations system for patient records, billing, and administration. Implemented secure authentication and structured workflows, improving record accuracy and enabling real-time access to patient data. System currently in active use.
Rental Management & Billing Application
Tech: React Native, Node.js, Flask, MongoDB
Impact: Built a mobile and web platform for landlords and tenants. Implemented automated billing reminders, dashboards, and payment tracking, reducing manual rent processing by 60% and improving tenant payment compliance.
AI Smart Pest Detection System (Kinga App)
Tech: React Native, React, Flask, PyTorch, OpenCV, MySQL
Impact: Developed an AI-powered mobile and web application to detect crop pests. Integrated a CNN (ResNet18) model for real-time predictions, with bilingual support and accessibility features. Enabled farmers to receive instant pest identification and treatment recommendations.
GradePoa — Student Revision Platform
Tech: React, Node.js, MySQL
Impact: Developed a platform for university students to access revision materials and track study progress. Streamlined learning resources and improved student engagement with interactive dashboards.

ACHIEVEMENTS

- Co-founded **Nextvijo Software Solutions** and delivered production systems currently in active use
- Built and deployed 5+ full-stack applications across business, healthcare, education, and agriculture

- Developed and integrated AI-powered pest detection into a working mobile application
- Successfully delivered end-to-end systems from requirements gathering to deployment and client adoption
- Digitized manual processes through custom software, improving operational efficiency
- Deployed multiple applications using cloud platforms with CI/CD workflows
- Completed IT industrial attachment, gaining hands-on enterprise experience
- Designed secure database-backed systems with authentication and role-based access control

LANGUAGES

- English — Fluent
- Swahili — Fluent

REFERENCES

Victor Omondi, *Project manager,* nextvijo software development company
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Maurice Waweru, *Head of IT department,* Nairobi City water and sewerage company
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