KAYIIRA EDWARD

Software Engineer
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PROFESSIONAL PROFILE

Software engineer with hands-on experience building and deploying full-stack products, from React and Node.js applications to Linux servers, Docker and AWS. Experienced in WordPress development and website redesign, Moodle and server administration, API integration (WhatsApp Cloud API) and applied AI. Founder of Tetea, a customer feedback intelligence platform.

Led technical implementation of the Uganda Martyrs University website redesign and built a Moodle notification plugin during an ICT Department internship. Founded the UMU Tech Community and supports digital literacy training as an ICDL Ambassador. Completing a BSc in Computer Science (expected October 2027).

PROFESSIONAL EXPERIENCE

Present — **Tetea (tetea.space)** — Uganda
Position: Founder & Software Engineer
Key responsibilities and Achievements.
- Building a platform that collects customer feedback, classifies it, detects recurring issues and turns them into actionable insights.
- Own the full product lifecycle: design, application development, AI-based classification, deployment and hosting.

June – July 2026 — **Uganda Martyrs University, ICT Department** — Nkozi, Uganda
Position: Software & IT Intern
Key responsibilities and Achievements.
- Led the university website redesign using WordPress, contributing to website migration, database setup and custom styling.
- Built and deployed a custom Moodle plugin integrating the WhatsApp Cloud API to send automatic student notifications.
- Deployed and administered Moodle and Koha on Linux servers (Apache, PHP, MySQL) and managed cloud servers on DigitalOcean, AWS and Azure for the CE-AFSN website, including security, backups and updates.
- Supported network troubleshooting and IT infrastructure, including subnetting, structured cabling and switch replacement.

Primacy Academy
Position: Software Developer Apprentice
Key responsibilities and Achievements.
- Participated in software development apprenticeship activities.
- Applied programming and technical problem-solving skills through practical development work.

2026 – Present — **UMU Tech Community (UTC)** — Nkozi, Uganda
Position: Founder & Lead
Key responsibilities and Achievements.
- Founded and lead a university-wide technology community covering software development, AI, cybersecurity, cloud and DevOps.
- Organise technology events, student hackathons and knowledge-sharing activities, including Git & GitHub workshops and the Dev Days GitHub Copilot series.
- Encourage practical learning, collaboration and technology-driven problem-solving among students.

2025 – Present — **ICDL Africa** — Nkozi, Uganda
Position: ICDL Ambassador
Key responsibilities and Achievements.
- Support campus-wide digital literacy awareness and training.
- Participate in digital skills training and certification workshops.
- Promote responsible and effective use of digital technologies among students.

SELECTED PROJECTS

Tetea View Project
- Customer feedback intelligence platform that collects feedback, classifies it, detects recurring issues and produces actionable insights.
- Designed, built and deployed end to end as founder and sole engineer, including AI-based classification.

DrainWatch View Project

- Civic technology project for reporting blocked drainage and supporting urban environmental monitoring in Kampala.
- Submitted as a Kampala flood early-warning SMS system.

Uganda Martyrs University Website Redesign View Project

Technologies: WordPress, PHP, HTML, CSS, JavaScript

- Led technical implementation of the redesign as part of a team of three: website structure, navigation, responsive layouts and interface styling.
- Implemented mega-menu navigation, hero sections, staff profile cards, FAQs and mobile navigation, plus custom plugins.

TECHNICAL SKILLS

Website Development: WordPress, Elementor and Gutenberg, PHP, HTML5, CSS3, SCSS, JavaScript, TypeScript, responsive web design, React and Next.js

UI/UX and Design Tools: Google Stitch, Figma, interface layout and visual implementation, website usability and responsive design

Backend and Databases: Python, Node.js and Express, REST APIs, WhatsApp Cloud API, MySQL and MariaDB, Firebase and Supabase

IT Infrastructure and DevOps: Linux and Ubuntu, Docker, Nginx, Apache, Linux server deployment and management, SSH, DNS and SSL, Moodle hosting support, AWS EC2, Microsoft Azure, Git and GitHub

AI and Productivity Tools: Claude Code, Kiro CLI, Ollama, AI-assisted development, AI automation, image classification, prompt engineering, Postman, Vercel

EDUCATION

2024 – Present **Uganda Martyrs University** Nkozi, Uganda
Bachelor of Science in Computer Science. Faculty of Science.
Current GPA: 4.0 / 5.0. Expected graduation: October 2027.

PROFESSIONAL TRAINING & CERTIFICATIONS

- Cisco Networking Academy – Introduction to Networks (CCNA)
- AWS – Cloud Practitioner Essentials
- ICDL Africa – ICDL Professional Certification
- HP LIFE – Agile Project Management
- HP LIFE – Cybersecurity Awareness

COMMUNITY & PROFESSIONAL AFFILIATIONS

- UMU AWS Cloud Club – Founder
- Google Developer Groups (GDG) Kampala – Community Member
- Huawei ICT Academy – Community Member

CORE PROFESSIONAL COMPETENCIES

- Full-stack web development and maintenance
- Cloud and Linux server deployment
- Technical troubleshooting and problem-solving
- UI/UX implementation
- Technical documentation
- Digital literacy training
- Team collaboration and leadership
- Communication and stakeholder engagement
- Agile teamwork and project coordination
- AI-assisted development and code review

REFERENCES

1. Grace Edward Iga – Head of ICT, Uganda Martyrs University. Email: headict@umu.ac.ug
2. Jane Ndibarekera – Head of Public Relations & Marketing, Uganda Martyrs University. Email: pro@umu.ac.ug