TITUS KYOYO MBOYA

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Professional Title
Software Engineer | AI/Machine Learning Engineer | ICT & Research Professional

PROFESSIONAL SUMMARY

Versatile and results-driven professional with strong expertise in **software development**, **artificial intelligence and machine learning**, and **ICT support**. Skilled in building efficient and user-centred applications that deliver practical solutions. Experienced in applying **AI and ML techniques** for data analysis, automation, and intelligent system design. Adept at providing **technical support and system maintenance**, ensuring seamless operations and continuous improvement across digital platforms.

EDUCATION

Bachelor of Science in Computer Science (2025)
Maseno University, Kisumu, Kenya | Second Class Honors, Upper Division *(≈ GPA 3.5/4.0)*
Relevant Coursework: AI + Software Engineering, Data Structures, Database Systems

CERTIFICATIONS

- **Software Engineering Certification** – Moringa School (2024): Full-stack development, best practices in software engineering, and collaborative coding.
- **Data Analytics with Excel & Python** – Google (2024): Advanced analytics techniques for data processing, visualization, and insights.
- **Machine Learning Specialization** – Coursera (Ongoing): In-depth study of ML algorithms, neural networks, and AI applications.

ACHIEVEMENTS

- **Personalised News Aggregator**: Built an ML-driven personalized news system that solved low content relevance (Situation/Task) and increased user engagement by 25%.
- **Farm Management System:** Developed a full-stack farm management system to fix fragmented reporting and activity tracking, reducing errors by 30% and improving task allocation speed by 40%.
- **Earth Flow** – Created an analytics tool integrating weather and geolocation data to support farmers needing planning insights, cutting decision-making time by 20%.

PROFESSIONAL EXPERIENCE

IT Support Specialist – Volunteer | CarifikaGlobal

Remote, Canada

October 2025-Present

- Provide IT support and troubleshoot system issues across distributed teams.
- Manage user accounts, perform hardware and software configurations, and ensure system uptime.
- Assist in website maintenance, data backup, and workflow automation.
- Support cybersecurity awareness and staff digital onboarding processes.
- Collaborate remotely using cloud tools to maintain communication and efficiency across departments.

Software Developer – Freelance & Academic Projects

Remote / Campus-Based

April 2022-Present

- Engineered **5+ full-stack applications** with real-time dashboards, improving client and student productivity by up to **30%**.
- Designed secure Firestore database structures and implemented Firebase Authentication, supporting **100+ concurrent users** without downtime.
- Built responsive front-end applications using HTML, CSS, JavaScript (ES6+), Tailwind, and Bootstrap 4, ensuring **100% mobile compatibility**.
- Collaborated in project sprints using Git/GitHub, maintaining clean, reusable, and scalable codebases.

ICT Attaché - Office of the Governor, Kitui County.

Kitui County, Kenya

April 2024 - August 2024.

- Provided end-to-end ICT services across 5 departments, improving system uptime by **15%.**
- Optimized digital records workflows, reducing data retrieval time by **30%**.
- Configured and maintained hardware and networks, resolving **95%** of technical incidents within SLA.
- Trained staff on digital tools (Excel, Google Docs, Canva), increasing task efficiency by **20%**.

<u>ICT Trainer & Volunteer</u>

Kisumu County, Kenya

Jul 2023 – Dec 2023

- Trained **100+ youth and job seekers** on essential digital tools for employment readiness.
- Conducted interactive workshops on Canva, Excel, and Google Docs, improving digital literacy by **40%**.
- Designed tailored training resources, ensuring accessibility for diverse learner groups.

TECHNICAL SKILLS

- **Programming & Scripting**: Python, PHP, Java, JavaScript (ES6+), HTML5, CSS3, R
- **Frameworks & Libraries**: React, Express.js, Node.js, Tailwind, Bootstrap, Firebase
- **AI/ML & Data Science**: Scikit-learn, Pandas, NumPy, TensorFlow, Data Visualization (Matplotlib, Seaborn)
- **Databases & Cloud:** MongoDB, PostgreSQL, Firestore, MySQL, Google Cloud, Firebase Cloud Functions
- **Tools & Platforms:** Git, GitHub, VS Code, Figma, Postman, Linux/Ubuntu, Excel
- **Other Skills:** Agile & Scrum, UI/UX Design, API Development, Debugging, ICT Support, Problem-Solving, Communication, Team Collaboration

LANGUAGES

- English-Fluent
- Swahili-Fluent

PERSONAL INTERESTS & HOBBIES

- Travelling & Exploring New Cultures
- Playing Chess

REFEREES

Available on request.