TITUS KYOYO MBOYA

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Professional Title

Software Developer | Entry-Level Machine Learning Engineer| Research Expert

PROFESSIONAL SUMMARY

Software developer with hands-on experience in **full-stack web/mobile development, machine learning, and ICT support.** Skilled in **Python, React, Firebase, and cloud integration**. Experienced in building scalable dashboards, aggregators, and management systems. Passionate about **UX, clean code, and open-source collaboration.**

EDUCATION

Bachelor of Science in Computer Science (Expected Graduation: November 2025)

Maseno University, Kisumu, Kenya | Second Class Honours, Upper Division *(≈ GPA 3.3/4.0)*

Relevant Coursework: AI + Software Engineering, Data Structures, Database Systems

CERTIFICATIONS & ACHIEVEMENTS

- **Web Development Certification** – freeCodeCamp (2023): Comprehensive certification covering HTML, CSS, JavaScript, and responsive design principles.
- **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**: Designed an ML-powered content filtering system using Firebase Auth & Firestore; improved user engagement by **25%** through personalized feeds.

- **Farm Management Dashboard:** Built a full-stack dashboard to track labour, activities, and yields; reduced reporting errors by **30%** and improved task allocation speed by **40%**.

- **Earth Flow** – Developed an analytics tool with weather forecasts and location data; enabled farmers to make data-driven decisions, reducing planning time by **20%**.

- **Task Manager Application:** Implemented a dynamic task allocation and progress-tracking system with user authentication; increased productivity by **35%** through real-time updates.

PROFESSIONAL EXPERIENCE

Software Developer – Freelance & Academic Projects

Remote / Campus-Based

2022-Present

- Engineered **5+ full-stack applications** with real-time dashboards, improving client and student productivity by up to **30%**.

- Developed a custom news aggregator that analyzed user behavior to deliver relevant content, boosting engagement by **25%**.

- 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 Intern - 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%**.

ICT Trainer & Volunteer

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.