MICHAEL TUMUHAISE

Software Engineer | AI Solutions Developer

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PROFESSIONAL SUMMARY

Software Engineer with expertise in full-stack web, mobile, IoT, and AI/ML systems. Experienced in building scalable solutions across healthcare, agriculture, tourism, and e-commerce. Combines technical skill with SEO/digital marketing to deliver market-ready products.

TECHNICAL SKILLS

- **Languages:** JavaScript, Python, PHP, Dart, Java
- **Frontend:** React, React Native, Flutter
- **Backend:** Django, Laravel, FastAPI
- **Databases:** PostgreSQL, MySQL, Firebase, Supabase
- **Testing:** Web & Mobile Testing
- **Deployment:** Web & Mobile Deployment, CI/CD Practices
- **DevOps & Tools:** Docker, Git, REST APIs, cPanel
- **Specializations:** IoT & Embedded Systems, AI/ML (TensorFlow, Scikit-learn), SEO, Google Search Console, Chatbot Development, Cloud Automation

WORK EXPERIENCE

Web Developer – Afrisoft Ltd & WildMed Safaris | 2024–Present

- Built scalable web apps using Django, Laravel, React; integrated real-time APIs.
- Increased organic traffic by 30% via SEO/digital marketing campaigns

Software Developer – Tattuintel Ltd | 2023–2024

- Developed mobile/web apps, including an ML-driven logistics platform.

IT Intern – NITA-U & NARO | 2022–2023

- Built chatbots with Python/Dialogflow, cutting response time by 40%.
- Provided technical support and system maintenance.

IT Officer – Kagoma Tech | 2021–2022

- Delivered IT support, network administration, and software solutions for SMBs.

KEY PROJECTS

- **Op Energy:** IoT energy monitoring system with prepaid unit conversion (Laravel, Supabase).
- **Smart Farming System:** IoT soil sensor device with live dashboard (Python, embedded systems).

- **RouteWise:** School shuttle tracker with ML route optimization (React Native, Django).
- **TheShop:** Full e-commerce platform with recommendation engine (React, FastAPI).

EDUCATION

Bachelor of Science in Software Engineering – Makerere University (2021–2025)

Diploma in Computer Science – Makerere University Business School (2018–2020)