

## MICHAEL TUMUHAISE

Kampala, Uganda

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## PROFESSIONAL SUMMARY

Innovative and results-driven Software Engineer with a Bachelor's degree in Software Engineering and hands-on expertise in full-stack web development, mobile applications, IoT systems, and AI/ML integration. Experienced in building scalable digital solutions across healthcare, agriculture, tourism, and e-commerce. Combines technical proficiency with digital marketing and SEO knowledge to deliver products that are both functional and market-ready. Seeking to leverage multidisciplinary skills in a challenging software engineering role.

## TECHNICAL SKILLS

- **Languages:** JavaScript, Python, PHP, Dart, Java
- **Frontend:** React, React Native, Flutter
- **Backend:** Django, Laravel, FastAPI
- **Databases:** PostgreSQL, MySQL, Firebase, Supabase
- **DevOps & Tools:** Docker, Git, REST APIs, cPanel, Supabase
- **IoT & Embedded Systems:** Sensor integration, real-time monitoring systems
- **AI/ML:** TensorFlow, Scikit-learn, model deployment
- **Digital Marketing:** SEO, Google Search Console, keyword optimization
- **Other:** Web hosting, chatbot development, cloud deployment, system automation

## WORK EXPERIENCE

### **Web Developer – Afrisoft Ltd | Kampala, Uganda**

2024 – Present

- Lead frontend and backend development of scalable web applications using Django, Laravel, and React.
- Integrated real-time APIs and deployed cross-platform systems to enhance user engagement and system interoperability.
- Collaborated with cross-functional teams to deliver high-performance digital solutions.

### **Web Developer – WildMed Safaris | Remote**

2024 – Present

- Designed and maintained responsive tourism platforms, improving user experience and booking conversions.
- Managed SEO and digital marketing campaigns, increasing organic traffic by 30% within three months.
- Developed client-facing dashboards to enhance customer engagement and retention.

### **Software Developer – Tattuintel Ltd | Kampala, Uganda**

\*2023 – 2024\*

- Built and deployed mobile and web applications, including an ML-driven logistics platform and a wedding planning app.
- Contributed to full-stack development cycles from concept to deployment, ensuring robust and scalable architecture.

### **IT Intern – National Information Technology Authority Uganda (NITA-U)**

\*2023\*

- Developed intelligent chatbots and internal automation tools using Python and Dialogflow, reducing response time by 40%.
- Created operational dashboards to streamline internal workflows and reporting.

## **IT Intern – National Agricultural Research Organization (NARO)**

\*2022\*

- Performed software installations and provided technical support across multiple departments.
- Assisted in maintaining IT infrastructure and troubleshooting system issues.

## **IT Officer – Kagoma Tech | Jinja, Uganda**

\*2021 – 2022\*

- Delivered IT support, system maintenance, and network administration for clients.
- Set up and configured hardware/software solutions for small businesses and educational institutions.

## **SOME PROJECTS**

### **Op Energy** – Laravel, Supabase, IoT

- Developed a real-time household energy monitoring system with remote socket control via embedded hardware.
- Enabled conversion of money to prepaid energy units, reducing manual top-ups by 60%.

### **Smart Farming System** – Embedded Systems, Python, Sensors

- Built an IoT device that collects soil data (pH, moisture, nutrients) and provides crop/maturity recommendations.
- Integrated a live dashboard for farmers, improving crop yield planning and resource allocation.

### **RouteWise** – React Native, Django, Supabase

- Created a school shuttle tracking app with ML-based route optimization using live traffic, weather, and accident data.
- Reduced average travel time by 25% through dynamic routing.

### **WonderWedding** – Flutter, Firebase

- Designed a comprehensive wedding planning mobile app managing budgets, guest lists, schedules, and vendor coordination.
- Served 500+ users during initial launch phase.

## **TheShop** – React, FastAPI

- Developed a full-featured e-commerce platform with cart, checkout, admin panel, and product recommendation engine.

## **Matendo Medical System** – Laravel, MySQL

- Secured platform connecting patients with health workers and storing digital health records.
- Facilitated remote consultations and improved medical data accessibility.

## **EDUCATION**

### **Bachelor of Science in Software Engineering**

Makerere University, Kampala, Uganda

2021 – 2025 (Completed)

### **Diploma in Computer Science**

Makerere University Business School

\*2018 – 2020\*