

# MICHAEL WARUIRU

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Backend Developer | AI Engineer

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## PROFESSIONAL SUMMARY

Self-taught **Backend Developer** with strong expertise in Golang and Python, recently expanding into **AI/ML** with TensorFlow and Scikit-learn. Experienced in building scalable applications, integrating APIs, and implementing ML-driven projects (e.g. Plant Disease Detector and document analyzer). Passionate about applying AI to real-world problems, eager to contribute as an AI Engineer (intern/entry-level) and building scalable backend architecture.

## TECHNICAL SKILLS

- **AI/ML Tools & Frameworks:** TensorFlow, Scikit-learn, spaCy, Matplotlib, Pandas
- **Programming Languages:** Python, Golang
- **Frameworks:** Django, Flask
- **Databases:** MySQL
- **Cloud & Deployment:** Netlify, Render
- **Others:** REST APIs, Authentication, M-Pesa integration

## PROJECTS

- **Plant Disease Detector** – Built a TensorFlow/Keras model for detecting potato, tomato, and pepper leaf diseases, outputting treatment recommendations.
- **Document analyzer** – Built with spaCy and Flask for detecting risky clauses in contracts, agreements, etc.
- **Sacco Management System** – Designed a Golang + MySQL system to manage vehicles, drivers, and checkpoints.
- **M-Pesa Integration** – Built secure payment APIs with C2B, B2C, and STKPush support.
- **Library Management System** – Automated catalog management, book borrowing/return using Go.

## WORK EXPERIENCE

### **Lead Trainer | Segera Ventures | Apr 2025 – Present**

- Traines government officials from all South Sudan states (including state directors, county officers, cooperative leaders and FAO officials) on the **Co-op Magic System**, an FAO-supported digital platform for managing cooperatives and agricultural data.
- Conducts **hands-on training sessions** covering system onboarding, data entry workflows, cooperative registration, loan record management, and reporting dashboards.
- Provides **on-site technical support** and acted as a **first-level system tester**, identifying bugs, documenting issues, and forwarding actionable feedback to the development team.
- Develops simplified **user guides** and training materials tailored to varying digital-literacy levels among state officials.
- Leads **capacity-building workshops** in remote field locations, ensuring that officers could operate the system independently after deployment.
- Coordinates with FAO project managers and Ministry of Agriculture staff to ensure smooth rollout and adoption across states.
- Assists in monitoring system usage, gathering user feedback, and recommending enhancements for future updates.

### **Backend Developer Intern | Skevatech Ltd | Jul 2023 – Oct 2024**

- Developed full-stack web apps in Golang & Go templates like **Sacco management** and **library system** to be implemented to an existing school system.
- Integrated M-Pesa payment solutions.
- Conducted end-user training for HR system.
- Built APIs & authentication-based personal projects.

### **Digitization Team Member | Ministry of Lands | Mar 2020 – Nov 2021**

- Participated in national land records digitization.
- Ensured accuracy and security of digital databases.

## EDUCATION & CERTIFICATIONS

- **AI Engineering Certificate** – PLP Academy (May – July 2025)
- **Full-stack Software Development** – PLP Academy (Feb – May 2025)
- **Python Development** – Udemy (2023)
- **JavaScript, HTML & CSS** – Udemy (2023)
- **Bachelor of Economics & Finance** – Kenyatta University (May 2013 – Dec 2017)

## **SOFT SKILLS**

- Communication • Adaptability • Time Management • Problem-solving

## **HOBBIES & INTERESTS**

Backend Development | Machine Learning | Web Development | Cycling | Writing Blogs | Traveling

## **REFERENCES**

Available upon request.