SWABRI KANENJE **Software Engineer – AI applications and Agentic System**

Go • Python • Rust • Applied Generative AI

Linkedin: https://www.linkedin.com/in/swabri-musa-/ | Github: https://github.com/skanenje

Email: swapomuse@gmail.com | Phone +254723975141

Profile Summary

Software engineer with a strong systems and backend foundation, currently specializing in **applied AI development**—particularly Retrieval-Augmented Generation (RAG), agentic workflows, and foundation-model integration.

Trained across **Go, JavaScript, and Rust** through an intensive two-year software engineering bootcamp, with hands-on experience building concurrent backend services, CI/CD pipelines, and full-stack applications. I now focus on designing **AI-powered applications** that combine LLMs with structured data, evaluation pipelines, and secure deployment practices.

Background in **Electrical & IoT systems** enables me to reason across hardware, data pipelines, and cloud-based AI services—bridging real-world signals with intelligent software systems.

Core Skills

CATEGORY	SKILLS & TOOLS
GEN AI APPLICATION	Foundation Model Evaluation & Selection, RAG, Prompt Engineering, LLM Agents and tool use, Guardrails & Safety, Model Monitoring, CI/CD for AI Apps
PROGRAMMING	C/C++ (Embedded), Python (Data Handling & Analytics), Go (Concurrent Device Services), Rust (Low-Level Performance), JavaScript (FullStack)
DATA & DB	SQL (MySQL, MariaDB), SQLite, NoSQL (JSON), File I/O
DEVOPS	Git, GitHub Actions (CI/CD), Docker, AWS, Agile Methodologies, Scalability Optimization
FOUNDATIONS	Data Structures & Algorithms ,Electrical Circuit Theory, Control Systems, Digital Signal Processing,

Work Experience

SOFTWARE DEVELOPER / DATA SCIENCE FOCUS **| Jan 2024 – Present - Zone 01 Kisumu**

Full-Stack Developer Training Program

Data Processing Optimization: Designed and implemented scalable backend services in Go for efficient data ingestion and preprocessing, improving raw data processing efficiency by 25% through optimized memory management and concurrent programming.

- Designed and implemented concurrent backend services in **Go** for data ingestion and preprocessing, improving throughput and memory efficiency by ~25%.
- Built **CI/CD pipelines** using GitHub Actions to automate testing and deployment, reducing release cycles from hours to minutes.
- Front-End Experience: Built responsive, cross-browser compatible frontends with HTML, CSS, and JavaScript, demonstrating an understanding of the full application stack from data visualization to user interaction.
- Agile Practice: Collaborated in peer-to-peer projects, applying Agile and DevOps practices to manage tasks and ensure the timely delivery of complex project milestones

Education: Diploma Electrical Engineering – Dedan Kimathi University Of Technology