Danson Muchui

Mathematics & Computer Science Undergraduate | Software • AI • Embedded Systems

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GitHub: github.com/Mdanson-code

Tech Brand: Meerqatt

Professional Summary

Mathematics and Computer Science undergraduate focused on engineering practical, real-world systems across software, AI, mobile, and embedded domains. Experienced in mobile and frontend development, AI system design, automation workflows, backend integration, and hardware–software systems. Strong preference for modular, offline-first, and privacy-aware architectures. Actively building production-oriented projects and a strong technical portfolio.

Technical Skills

Programming Languages: Python, Dart, JavaScript, HTML5, CSS3, SQL (basic)

Frontend Libraries & Tools: React, Vite, Vanilla JavaScript, Responsive Design Principles

Frameworks & Platforms: Flutter, Supabase, Docker, n8n

Dev Tools: Git, GitHub

AI & System Design: AI assistant architecture, prompt engineering, offline-first systems, modular architecture, data flow & state management, privacy-aware design

Embedded Systems: Arduino, ESP32, ESP32-CAM, Neo-6M GPS, RF communication modules

Projects

Ava – Personal AI Assistant

Designed a campus-oriented personal AI system focused on daily utility with an offline-first core and modular architecture supporting automation, conversational assistance, and system integration.

Drone Control System (dotX / Ava Drone)

Designed a modular drone system using ESP32-CAM with live camera feed, GPS tracking, mobile-based control, and RF redundancy, emphasizing reliability and extensibility.

Vasiti – Flutter Mobile Application

Building a Flutter-based mobile application with focus on app architecture, state management, backend integration via Supabase, and scalable feature flow design.

Education

Bachelor of Science – Mathematics & Computer Science, Kenyatta University (2024 – Present)

KCSE – Njia Boys High School (2019 – 2023)

Leadership & Communication

Former Debate Secretary with strong technical documentation, explanation, and presentation skills.