MICHAEL FRANCOO FREDY

Software Engineer — Full-Stack Web, Flutter Mobile & Applied AI

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PROFESSIONAL SUMMARY

micro1 Certified Software Engineer specializing in Full-Stack Web (TypeScript, React, Next.js, Node.js), Offline-First Mobile (Flutter & Dart), and Applied AI systems. Combines verified algorithmic problem-solving with clean system architecture, deterministic AI guardrails, and automated testing to ship reliable, production-grade software. Fluent in English and experienced in asynchronous remote engineering workflows.

CERTIFICATIONS & VERIFIED CREDENTIALS

micro1 Certified Software Engineer — micro1 AI Technical Vetting (ID Verified) **Nov 2026**

- Certified for outstanding technical interview performance across **Algorithms & Data Structures**, **Core Coding Language Proficiency**, and **Software Engineering Experience**.

TECHNICAL & COMMUNICATION SKILLS

Languages:	TypeScript, JavaScript (ES6+), Dart, SQL, HTML5, CSS3
Frontend & Mobile:	Next.js (App Router), React, Flutter, Tailwind CSS, Progressive Web Apps (PWAs), Offline-First Architecture, Responsive & Accessible UI
Backend & DevOps:	Node.js, REST APIs, PostgreSQL, Docker, Git, GitHub Actions (CI/CD), Linux CLI, Vercel
Applied AI & QA:	Applied AI Systems, Prompt Engineering, Deterministic Guardrails, AI Output Evaluation, TensorFlow.js (On-Device ML), Vitest, Jest, Chrome DevTools
Communication:	English (Fluent) & Swahili (Native), Technical Documentation, Architecture Write-ups, Async Remote Collaboration, Code Reviews

SOFTWARE ENGINEERING EXPERIENCE

Full-Stack & Mobile Software Developer — Independent Software Engineering **Jan 2024 – Present · Remote / Mbeya**

- Architected and delivered full-stack web applications end-to-end using TypeScript, React, Next.js (App Router), Node.js, and PostgreSQL with strict type safety, modular component design, and clean RESTful API boundaries.
- Engineered cross-platform, offline-first mobile and progressive web applications in Flutter, Dart, and modern browser APIs—prioritizing local state persistence, fast rendering, and reliability in low-connectivity environments.
- Built and deployed institutional and client-facing web platforms with automated CI/CD workflows, strict linting, mobile-first UX, and reproducible Dockerized development environments.
- Enforced software reliability through automated unit and integration testing (Vitest & Jest), deterministic state verification, and structured performance debugging.

Applied AI & AI-Accelerated Engineering — Independent Engineering Practice **Jan 2024 – Present · Remote**

- Integrated multimodal, conversational, and on-device machine learning capabilities into real software products using structured prompt engineering, real-time streaming responses, and deterministic validation guardrails to prevent hallucinations and enforce factual accuracy.
- Evaluated AI-generated code and model outputs for algorithmic correctness, edge-case resilience, and strict adherence to technical specifications across bilingual (English & Swahili) environments.
- Accelerated full-stack and mobile delivery through AI-assisted engineering workflows while maintaining rigorous human code review, clean Git history, and automated test coverage.

EDUCATION

Bachelor's Degree in Information and Communication Technology (ICT) — Mbeya University of Science and Technology (MUST) **Nov 2026 – Nov 2029 (In Progress)**

Diploma in Information and Communication Technology (ICT) — Mbeya University of Science and Technology (MUST) **Oct 2023 – Oct 2026 (Completed)**