

MAKIA ENI TIMOTHY

SOFTWARE ENGINEER | FULL-STACK & AI

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PROFESSIONAL SUMMARY

Software Engineer and technical project lead experienced in designing, building, and deploying full-stack web platforms and smart AI applications. Proven track record in startup and agency environments, translating complex requirements into scalable, secure, and SEO-optimized production software. Strong background in Next.js, React, Node.js, Python, and applied machine learning models.

TECHNICAL SKILLS

Frontend & Mobile: Next.js, React, TypeScript, JavaScript, Tailwind CSS, React Native, Dart, HTML5/CSS3

Backend & APIs: Node.js, FastAPI, Flask, REST APIs, Python

AI & Machine Learning: RAG Pipelines, Vector Databases (PGVector), Llama 3.3, Edge AI, TensorFlow, Computer Vision, OCR, Google AI Studio

Cloud & Databases: PostgreSQL, Supabase, MongoDB, Firebase, SQLite, AWS, Vercel, PostgreSQL

DevOps & Tools: Git, GitHub, CI/CD, Role-Based Access Control (RBAC), System Design, Performance Optimization, Technical SEO, Agile/Scrum

PROFESSIONAL EXPERIENCE

Software Engineer (Full-Stack Developer & Project Lead)

March 2023 – April 2026

SoftNovan Team, Yaoundé, Cameroon (Remote)

- **Platform Delivery:** Spearheaded end-to-end delivery of the "Smart Engineering" platform, building a high-performance, bilingual (English/French) web system in Next.js to showcase civil engineering projects and capture prospective client leads.
- **Cloud Architecture:** Architected and provisioned secure corporate cloud infrastructure, deploying custom email domains, shared drive folder structures, and fine-grained access policies across executive, project lead, and staff tiers.
- **Access Control:** Enforced strict Role-Based Access Control (RBAC) across client drive directories, securing sensitive engineering blueprints and operational files against unauthorized access.
- **Workflow Automation:** Automated client onboarding and communication workflows, integrating custom contact inquiry forms and API validations that eliminated manual follow-up friction.
- **Project Governance:** Managed project lifecycles, technical documentation, and cross-functional team workflows to ensure on-time feature delivery and operational stability.

Software Engineering Intern

July 2023 – September 2023

TIC Foundation, Yaoundé, Cameroon

- **Web Infrastructure:** Co-developed the official TIC Summit web platform, building a scalable, responsive Next.js and React.js foundation that continues to serve as the live event platform today.

- **Version Control:** Executed professional Git and GitHub collaborative workflows within a multi-developer team, resolving merge conflicts, conducting code reviews, and managing release branches.
- **Architectural Refactoring:** Refactored legacy UI components into reusable architectural patterns, reducing code duplication and accelerating feature delivery across sprint cycles.
- **Performance Optimization:** Maintained site stability and page load performance during peak promotional activity and attendee access periods.

SELECTED PROJECTS

B2B Fintech Homepage Prototype (Concept Project)

- Designed and built a modernized homepage prototype for Maviance, optimizing information architecture and streamlining user onboarding layouts for financial services.
- Implemented clean component modularity using Next.js/React and Tailwind CSS, achieving high responsive fidelity and faster client-side render times.

RAGBOT.AI: Full-Stack AI Lead

- Developed a Retrieval-Augmented Generation (RAG) assistant using Supabase PGVector and Llama 3.3 vector embeddings to analyze PDFs, Word documents, and images.
- Integrated OCR document ingestion and sequential request queuing to enable conversational querying and output citation-backed insights.

Leafy Mobile App: Mobile & Embedded ML Engineer

- Engineered an offline-first Flutter application for remote agricultural diagnostics that executes local TensorFlow Lite models for real-time crop disease detection.
- Built local SQLite data persistence paired with asynchronous background synchronization to Firebase when network connectivity is restored.

Skrihbe CMS: Full-Stack Developer

- Developed a headless content management system featuring passwordless OTP authentication, real-time telemetry dashboards, fine-grained Role-Based Access Control (RBAC), and editorial collaboration tools.

EDUCATION

Bachelor of Technology (BTech) in Computer Engineering

2024 – 2026

College of Technology, University of Buea

Major in Software Engineering (Data Science & AI Focus)

Higher National Diploma (HND) in Computer Engineering

2022 – 2024

College of Technology, University of Buea

Major in Software Engineering

LANGUAGES

English: Native / Professional Fluency

French: Intermediate