

Michael Akidiwe Kuseh

AI Integration Engineer · LLM APIs, Tool-Using Agents, AI-Powered Products
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SUMMARY

Software engineer with 2 years at Smart Innovations Ghana putting LLMs into production products. Built a multi-provider LLM layer (Anthropic, OpenAI, Gemini) and a tool-using copilot agent with allow-listed tools, budgets and an audit trail for a live geospatial SaaS, plus LLM-based CV tailoring and streaming chat in personal products, on a solid full-stack base in TypeScript and Python.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, Python, SQL, Dart, PHP, Java & C++ (academic)
AI	Anthropic Claude, OpenAI, Gemini, tool-using agents, LangChain, n8n
Backend	Node.js, Express, NestJS, FastAPI, WebSockets, JWT & RBAC, Paystack & Ghana.GOV payments
Frontend	React, Next.js, Vue, Tailwind CSS, Ant Design, TanStack Query, MapLibre GL
Data	PostgreSQL, PostGIS, MongoDB, Redis, Prisma, Drizzle, SQLAlchemy, Celery, BullMQ, Firebase
Mobile	Flutter, React Native (Expo), offline-first sync, Bluetooth printing
DevOps & Testing	Docker, GitHub Actions, Nginx, PM2, Linux VPS, Sentry, Vitest, Jest, pytest, k6

EXPERIENCE

Software Engineer <i>Smart Innovations Ghana Ltd.</i>	Oct 2024 – Present Accra, Ghana
TerraPulse — Lead Engineer <i>FastAPI · PostgreSQL/PostGIS · Celery · Redis · Next.js 15 · MapLibre</i>	Live SaaS
- Built a geospatial SaaS that turns mineral-exploration data into ranked, explainable drill targets, writing 452 of 479 commits; 123 API endpoints with tenant isolation via Postgres row-level security. - Designed a multi-provider LLM layer (Anthropic, OpenAI, Gemini) and a tool-using copilot agent with allow-listed tools, spend budgets and an audit trail; ~590 automated tests and CI/CD to production.	
Evenofy — Tech Lead, 6-person team <i>Next.js · Express · TypeScript · Prisma · PostgreSQL · Paystack</i>	Live SaaS
Top committer on a multi-tenant event platform; built the registration form builder, QR badge PDFs, multi-scope check-in, Paystack workspace billing and the super-admin console, and set up CI/CD.	
National Regulatory Platforms — Lead / Core Developer <i>MongoDB · Express · React · Ant Design · Redis</i>	5 systems
Explosives and equipment permits, firearm licensing, LPG cylinder tracking and mining-industry reporting; built composite role-based access, multi-stage review workflows and licence lifecycles.	
Backend & Web Lead (Contract) <i>Coasted (gamified maths learning platform)</i>	May 2026 – Present Remote
Built the Node.js/TypeScript backend with REST and WebSocket multiplayer matchmaking, Redis leaderboards, and Prisma/PostgreSQL (35 models); deployed via GitHub Actions, PM2 and Nginx.	

SELECTED PROJECTS

JobHunter AI — AI Job-Search Platform <i>FastAPI · Celery · Redis · Meilisearch · Next.js · Expo · LangChain</i>	In development
Celery workers harvest jobs from ATS boards and aggregators into a Meilisearch index; 56-endpoint FastAPI API with LLM-based CV tailoring, ATS gap analysis and Paystack credit billing; 179 pytest tests in CI.	

Thrive — AI Finance Assistant

In development

React Native · Expo · Express · MongoDB · OpenAI · Gemini github.com/AkideweKuseh/ai-finance-coach

- Switchable OpenAI/Gemini layer, SSE-streamed chat grounded in the user's live spending, and vision-based receipt parsing into validated transactions.

OpenBanner — Self-Hosted Image Generation API

Open source · in use at SIG

Node.js · Express 5 · Puppeteer · MinIO · Docker github.com/AkideweKuseh/openbanner

- Template-to-image render API built to be called from n8n automations; SSRF guard with DNS pinning, sandboxed Chromium and a hardened one-command Docker deployment.

EDUCATION & CERTIFICATIONS

BSc Computer Science and Engineering, University of Mines and Technology, Tarkwa, Ghana

2024

AWS Educate Machine Learning Foundations — Amazon Web Services ([verify](#))

Jun 2025

Introducing Generative AI with AWS — Udacity ([verify](#))

May 2025

LANGUAGES

English (Fluent) · Kasem (Native) · Twi (Conversational)