

Mayowa Francis Dada

AI Product Engineer

United Kingdom · mayowa.dada@solat.io · linkedin.com/in/mayowadada · github.com/Haryohmi

PROFILE

AI Product Engineer who takes products from an ambiguous problem to running software: architecture, backend implementation, deployment, and the operational work that follows. I build with large language models, structured LLM workflows and production Python services, and I am as interested in what a system cannot do as what it can. I currently own the engineering for a live AI product with paying users, and run SOLAT Technologies delivering client software.

CORE TECHNICAL SKILLS

Languages	Python, TypeScript, SQL
Backend	FastAPI, REST APIs, PostgreSQL, Redis, async processing
AI systems	LLM application design, structured prompting, long-context pipelines, LangChain, Google Gemini, prompt evaluation
Web	Next.js, React, Tailwind CSS, Payload CMS
Production	Vercel, Supabase, Stripe, Resend, Sentry, PostHog, Chrome extensions (Manifest V3)
Quality	Vitest, Playwright, axe-core accessibility testing, CI pipelines

EXPERIENCE

Founder & AI Product Engineer — SOLAT Technologies

Jun 2025 – Present

- Built and operate **TubeMate** (tube-mate.com), a live AI YouTube learning assistant on the web and as a Chrome extension. Python/FastAPI, PostgreSQL and Redis, with Gemini 2.5 Flash Lite via LangChain. 224 registered users, 130 summaries across 94 videos and ~79 hours of content processed as of August 2026.
- Chose **long-context prompting over retrieval-augmented generation** after measuring that target transcripts fit inside the model's context window — removing a vector index, its latency and a class of retrieval failure, and tying the product's video-length tiers to that constraint.
- Diagnosed and fixed a production incident where YouTube rate-limiting triggered a retry cascade (~70 Sentry events), adding a Redis-backed cooldown to break the loop.
- Reduced registration abuse with a layered response — an email verification gate on product use, per-IP registration and login limits, and fingerprint-based throttling on the unauthenticated endpoint.
- Shifted the product's success measure from raw signups to verified and activated users after finding that nearly half of registrations never verified an email address.
- Integrated Stripe billing, transactional email (Resend), error tracking (Sentry) and product analytics (PostHog).

Full-stack Engineer — client delivery via SOLAT

2025 – Present

- **Community platform (Next.js, Payload CMS, PostgreSQL).** Led information architecture and build. Chose Payload over a hosted CMS because a nine-role permission model, audit logging and submission-queue ownership exceeded what hosted tooling offered without enterprise pricing plus a separate admin application. Modelled 14 content collections with distinct access rules and publishing lifecycles. WCAG 2.2 AA checks (Playwright + axe-core) run in CI alongside typecheck, lint and migration-backed builds.
- **Booking and payments platform (Next.js, Supabase, Stripe).** Built the customer booking flow, the availability engine, an admin dashboard and Google Calendar sync. Used Stripe's hosted Checkout so card details stay within Stripe's interface. Unit-tested the pricing and availability logic, where double-bookings and payment edge cases carry direct commercial cost.
- **Made-to-order retail storefront (Next.js, static).** Identified that a self-service cart did not match a business selling through conversation, and built a collection-led catalogue routing interest to direct enquiry instead — a scope decision visible in the codebase, which carries no cart, checkout or inventory layer.

Software Engineer (contract) — UK startup

Jun 2024 – Sep 2024

- Developed backend services and REST APIs in Python and Node.js, including document-processing and AI-assisted CV generation workflows.
- Contributed to frontend development and architectural decisions on scalability and maintainability.

SELECTED PROJECTS

TubeMate — live AI product, web and Chrome extension. Freemium with Stripe billing. tube-mate.com

ÒreAyò — active research into speech recognition for Nigerian languages (Yoruba, Igbo, Hausa). Pre-release. oreayo.solat.io

EDUCATION

MSc Management of Business Information Technology — Distinction

BSc Psychology

ADDITIONAL

Alongside my technology work I am employed in a regulated custodial environment in the UK, which has developed my approach to responsibility, documentation and decision-making under pressure.