



Profile

Applied AI Engineer with direct experience building and deploying production LLM systems for real users. Led end-to-end development of RAG-based intelligence platforms, conversational AI products, and automated ingestion pipelines — from architecture and experimentation through to production deployment with monitoring, cost tracking, and human-in-the-loop quality controls. Core strengths in retrieval-augmented generation, semantic search, multi-provider LLM orchestration, and AI evaluation workflows including validation gates, confidence scoring, and hallucination mitigation. Experienced in owning products end-to-end while collaborating with cross-functional teams, and communicating technical tradeoffs to non-technical stakeholders.

Skills

- **LLM & AI Systems:** Multi-provider LLM orchestration (OpenAI, Anthropic, Gemini, DeepSeek, Qwen), custom fallback chains, prompt engineering, iterative reasoning pipelines, hallucination mitigation, confidence scoring, citation-aware response generation
- **Retrieval & Search:** RAG pipeline architecture, Voyage AI embeddings (voyage-4/voyage-4-lite), pgvector, semantic search, reranking, chunking strategies, hybrid retrieval
- **Evaluation & Quality:** AI validation gates, quarantine logic, human-in-the-loop review workflows, LLM usage/cost tracking, audit logging, output quality assessment
- **Data Ingestion & Processing:** Web scraping (Playwright, BeautifulSoup, cloudscraper, curl-cffi), RSS/PDF/web extraction (Trafalatura, Newspaper4k), text cleaning, semantic chunking, deduplication
- **Backend & Infrastructure:** Python, FastAPI, PostgreSQL (Supabase), Redis, Celery, Render, Vercel, Digital Ocean, REST APIs, Slack/email delivery pipelines, structured logging, error handling, environment management, custom API and integration testing
- **Frontend:** Next.js, React, Tailwind CSS

Project & Work Experience

Lawyard — Legal Intelligence Pipeline | Live

Built for Lawyard, an African legal media platform

- Automated legal intelligence pipeline processing 5,000+ updates daily from 1,500+ sources across Africa; about 80 classified as relevant daily through multi-stage AI relevance scoring with source-type gates, about 80% approved for publication daily through human review in Slack
- Built multi-method content extraction chain (Trafalatura → Goose3 → Newspaper4k → Readability → Playwright fallback), deduplication registry, and WordPress auto-publishing
- Developed AI-powered SEO layer generating optimised metadata for each published post
- Built weekly newsletter system with LLM-powered article ranking to surface top stories; 82 active subscribers across first two editions

- Custom end-to-end pipeline testing scripts verifying decision quality at each stage
 - LLM cost tracking per provider and task; media bank storing all relevance-classified updates for archival and retrieval
 - Team refinement workflow: reviewers can edit and add editorial nuance directly in Slack before approval triggers auto-publish with AI-generated SEO
 - **Outcome:** Lawyard now publishes 50+ quality-filtered legal updates daily with zero manual sourcing; content pipeline runs fully automated with human approval as sole manual step
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Meridian Tracker — Policy Intelligence Platform | In development

Built for Meridian Intelligence

- RAG-based regulatory intelligence platform for African businesses; 7,300+ sources already ingested across Africa
 - Multi-method scraping with Cloudflare bypass (cloudscraper, curl-cffi, Playwright fallback chain)
 - Embeds headline + summary + implication using Voyage AI voyage-4 (1024 dims) into pgvector
 - Custom iterative reasoning pipeline for implication generation with ACT halting on confidence threshold
 - Multi-provider LLM orchestration (OpenAI, Anthropic, Gemini, DeepSeek, Qwen) with fallback chain and model tiers per pipeline step
 - Citation-aware AI chat over brief archives with semantic retrieval and reranking
 - Multi-tenancy via Supabase RLS; subscription-gated access; Slack and email delivery
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Addy — AI Property Search Assistant | Live

Built for AgentBuddy, deployed on CloudVantage VPS

- Conversational property search assistant serving 2,700+ listed properties with near-instant response time
 - WhatsApp ingestion pipeline with two-pass AI extraction: initial extractor plus validator pass with accept/refine/quarantine/drop decisions and confidence scoring
 - Semantic property search using Voyage AI embeddings and pgvector; tool-based LLM chat with guardrails restricting conversation scope to property search only
 - LLM usage/cost tracking per provider, model, and task with admin reporting endpoints
 - Human escalation workflow when no match search is found in the database; admin verification with full audit trail
 - **Outcome:** CEO highlighted response speed and conversational quality as standout features; system handles off-topic queries gracefully while maintaining engagement
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APIP — ACIOE Policy Intelligence Platform | Previously deployed

Built at ACIOE Associates for internal teams and advisory clients

- Automated policy monitoring pipeline processing 1,000+ daily updates; AI classification filters to ~10 high-relevance items delivered to Slack for human review; team can refine and add nuance directly in Slack before approval triggers auto-publish

- 4-method scraping fallback, LLM-based relevance classification and summarisation
- Policy Bank storing thematically-tagged items for historical brief generation and thought leadership content
- Used by the PPGR team (5 members) for client advisory and by the Gender team for generating weekly social media digests
- **Outcome:** Replaced estimated 40+ hours/week of manual policy monitoring; enabled evidence-based content production across two business units

DASH Portal — AI Assessment Platform | Live

Built for DASH Language School

- Learning platform serving 50+ students and 5 teachers across 9 active courses with 417+ materials ingested
- AI-powered assessment generation from course materials with practice mode toggle
- FastAPI backend, Next.js frontend, role-based auth (student/teacher/admin), Cloudflare R2 presigned URLs for secure file delivery
- LibreOffice-based document-to-PDF conversion pipeline via Docker on Render
- **Outcome:** School transitioned from manual assessment creation to AI-generated assessments; students actively using from the platform for coursework and practice

Education

**Obafemi Awolowo
University (OAU)**

Apr 2017 – Dec 2021

BSc Economics

- Graduated with **First Class** honor
- Best student in faculty, and other 2 awards of academic excellence

Certifications

- Agentic AI Developer - Global Skill Development Council (GSDC)
- Building Your Own Database Agent - DeepLearning.AI
- Build and Train an LLM with JAX - DeepLearning.AI
- Post-training of LLMs - DeepLearning.AI
- Project Management Professional - PMI