

Adebayo Abdul-Malik

AI & Backend Engineer

📍 Lagos, Nigeria

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🌐 [Portfolio](#)

🐙 [Github](#)

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PROFESSIONAL SUMMARY

AI engineer building production LLM systems and scalable backend infrastructure for clients across the United States, Europe, Asia, the Gulf, and Africa. Strong background in RAG pipelines, agentic AI workflows, API driven architectures, and cloud infrastructure.

Delivered systems serving thousands of users with a focus on reliability, security, and scalability.

PROFESSIONAL EXPERIENCE

SUPERNOMICS

San Francisco, United States (Remote)

Senior AI & Backend Engineer

January 2026 – Present

- Building LLM safety pipeline using Anthropic's Claude API with custom prompt injection detection and content filtering to reduce harmful outputs while maintaining low-latency responses
- Modernizing desktop application infrastructure to support AI feature deployment: refactoring Electron.js codebase, implementing activity tracking for ML training data collection, and establishing standards for embedding LLM capabilities

AXIOMFUSE

London, United Kingdom (Remote)

Software Engineer (AI & Backend)

November 2025 – Present

- Contributing to the backend and AI features of a UK-based healthcare staffing platform serving NHS Trusts across four connected products on a shared backend, covering intelligent job matching, real-time data sync, and compliance tracking for 1,400+ medical professionals and 4,900+ filled jobs across the UK, at an 87% satisfaction rate
- Core member of two-person backend/blockchain team building DeFi wallet infrastructure from inception, integrating Aave, Morpho, Kamino, and Jito protocol integrations with real-time WebSocket position tracking across Ethereum and Solana, plus in-app calls and messaging.
- Core member of a two-person team that built ForeSight full-stack, an AI-assisted report-writing platform and CRM for R&D tax consultancies, owning the data model, API layer, and interface end to end; the platform's LLM-driven report engine and automated compliance checks now support hundreds of client claims

BRDGE

London, United Kingdom (Remote)

AI Development Analyst

February 2025 – November 2025

- Built an AI voice companion with tool-calling architecture for a dementia-care app, integrating emotional prosody detection with a multi-step reasoning flow that triggers photo-based memory quizzes and escalates distress signals to human carers, bound to a clinical safeguarding spec.
- Built the backend and AI for D Jungle People's live iOS/Android leadership coaching app, running a T-GROW coaching protocol via LLM with pgvector RAG retrieval over the firm's coaching corpus; drove £100k+ in new revenue within four months of launch and a 20% lift in post-workshop retention.
- Led end to end development of an Arabic English legal chatbot using Llama 3 and Legal GPT via AWS Bedrock, with retrieval built on a LlamaIndex RAG pipeline over client uploaded documents, handling 200+ queries daily for a Saudi based client with strict data sovereignty requirements

- Designed and built the complete backend architecture and API endpoints for Apprentago, a large-scale apprenticeship platform serving 22,000+ users and 10,000+ job listings, ensuring scalability, efficiency, and successful live deployment.
- Built a Python-based job title standardization pipeline, processing over one million free-text job titles by correcting spelling errors and removing embedded locations, employment types, and seniority indicators, while preserving original source values for traceability
- Developed LLM-powered AI assistants using RAG pipelines and fine-tuned models, deploying with Docker on AWS and GCP with CI/CD via GitHub Actions, maintaining security and NDA compliance across confidential client projects

SKILLS

- **Languages & Frameworks:** Python, Django, Django REST Framework, Flask, FastAPI, JavaScript, Electron.js
- **Databases:** PostgreSQL, MySQL, MongoDB, pgvector
- **AI & ML:** LLM-based systems (OpenAI, Claude, Llama), Retrieval-Augmented Generation (RAG), vector search & indexing (FAISS, pgvector, LlamaIndex), structured data extraction, agentic AI workflows, LangGraph, Model Context Protocol (MCP), NLP
- **DevOps & Cloud:** Docker, Git, CI/CD, AWS, GCP, Celery

EDUCATION

BOWEN UNIVERSITY

Programme: Bachelor of Science, Computer Science (4.11/5.00)

Thesis : Development of a Nigerian Sign Language Recognition System

Honors & Awards: Student Icon 360 (Awarded to outstanding students excelling in academics, leadership, and Community Impact)

Osun State, Nigeria

2020-2024