

Alabi Ayobami

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Portfolio

Lagos, Nigeria - Open to Remote

TECHNICAL SKILLS

Languages: Python, TypeScript, Dart, C++, SQL, Bash.

AI/ML: PyTorch, Hugging Face Transformers, YOLOv8, llama.cpp, scikit-learn, OpenCV, Label Studio, ONNX Runtime, GGUF / quantization (Q4_K_M), LoRA / distillation.

Backend & Data: FastAPI, Flask, PostgreSQL, Supabase, REST APIs, Docker, Fly.io, AWS S3.

Frontend (working knowledge): Flutter, React, Next.js, Tailwind CSS.

EXPERIENCE

AI Developer / Engineer

Feb 2024 - Apr 2025

The LogicRoom Innovation Hub

Ikorodu, Nigeria

- Built chatbots handling dynamic user queries and internal developer-AI tools that improved team productivity.
- Fine-tuned open-source models (DeepSeek-R1, MobileLM, Chronos T5) on custom datasets; developed small models for mobile/low-power devices.

Robotics & Deep Learning Intern & Educator (Part-time)

Jan 2024 - Apr 2024

Haven Education Services

Ikeja, Nigeria

- Prototyped AI-powered demo products for local businesses and taught machine learning, robotics, and programming to pupils.

Founding Full Stack Engineer

Nov 2025 - Present

Travloop

travloop.io

- Shipped a travel group-booking platform (Next.js 15, TypeScript, Supabase/Postgres + RLS); built the Paystack payments pipeline with server-side price re-validation and a 30/40/30 installment tracker.
- Built an LLM-powered travel assistant that handles natural-language trip search and custom trip creation, returning structured results inline in the conversation; server-side proxy with Supabase auth and external agent backend.

Full Stack Engineer

Jan 2025 - Nov 2025

Scholara Cloud (Dualmind Tech Consulting)

- Built multi-tenant school-SaaS frontends (React 19, TypeScript, Redux Toolkit / RTK Query, Turborepo) with role-based workspaces and lazy/manualChunks code-splitting.

PROJECTS

AgriPadi (GitHub) | Python, QLoRA / Unsloth, DeepSeek, llama.cpp, ONNX Runtime, Flutter

June 2026 - Aug 2026

- On-device farm advisor for Nigerian smallholders: local tiny-aya-earth 3.3B LLM (English/Pidgin/Hausa/Yoruba/Igbo advice via llamadart) plus an EfficientNet-B0 18-crop disease classifier via ONNX Runtime; fully offline.
- QLoRA fine-tune on a 6.7k-sample multilingual synthetic SFT dataset built with a DeepSeek pipeline (LLM verifier, quality gates, banned-pesticide safety filter); measured and eliminated a 79% length-bias in generated MCQs.
- Wrote a custom LoRA-to-GGUF exporter (patched llama.cpp BPE fingerprint mapping) to Q4_K_M; validated base vs fine-tuned on ARC-Easy (lm-eval-harness) to catch catastrophic forgetting.

EchoLLM (GitHub) | C++, Flutter/Dart, llama.cpp, GGUF, PyTorch

2025 - Present

- Privacy-first on-device LLM app (published on Snap Store); C++ FFI bridge from Flutter to llama.cpp with thread-safe long-running inference.
- Q4_K_M quantization for <1.1GB footprint and ~20 tokens/s on consumer hardware; distilled DeepSeek-R1 reasoning into a 1.7B Qwen2.5 student; BYOK access to Claude/Gemini/GPT.

Rubik-YOLO (GitHub) | Python, YOLOv8-OBB, OpenCV, ONNX, Label Studio

2024

- Fine-tuned YOLOv8-OBB for 3D Rubik's-cube tracking in dynamic lighting (95% mAP on a self-curated dataset), with an active-learning relabel loop and ONNX export.

ScriptureScope (GitHub) | Flutter, Whisper, Vosk, T5-small, Hugging Face

2024

- Cross-platform Bible study & presentation app with offline speech-to-text (Vosk) plus a local Whisper transcription server (Flask); the T5 verse extractor below powers its voice search.
- Fine-tuned a T5-small seq2seq model to extract structured JSON verse references from noisy contextual speech/text; synthetic-data pipeline covering standard, verbose, and abbreviated formats; 75-79% higher recall than regex.

EDUCATION

University of Lagos

Expected 2026

B.Sc. Technology Education (Automobile Technology) - Lagos, Nigeria

Relevant Coursework: Engineering Mathematics, Applied Physics, Computer Science Fundamentals