

Anslem Akadu

AI Engineer | Applied AI | LLM & Backend Systems

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SUMMARY

AI engineer building LLM powered backend systems in Python on AWS. Currently shipping event-driven Microsoft 365 services end to end: Graph webhooks, LLM triage, RAG and policy classification with structured outputs, a tool calling Teams assistant, and tested serverless pipelines. Previously fine-tuned and migrated open weight LLMs (Gemma 3 1B to Qwen, QLoRA) in health tech.

TECHNICAL SKILLS

Backend: Python, SQL, Bash; REST APIs, webhooks, FastAPI, Flask, Pydantic; SQS workers; pytest, moto

LLM Engineering: OpenAI and Anthropic APIs, structured outputs (JSON Schema, Pydantic), tool calling, streaming, retrieval augmented generation (RAG), embeddings, PII redaction

Microsoft 365: Microsoft Graph (mail, calendar, Teams, transcripts, webhooks), MSAL, Teams bots, Adaptive Cards, Copilot agents

Cloud & DevOps: AWS (Lambda, API Gateway, SQS, DynamoDB, EventBridge, CloudWatch, EC2), AWS SAM, Docker, Redis, Linux, Git, GitHub Actions, Claude Code

Machine Learning: PyTorch, Hugging Face Transformers, PEFT/QLoRA, llama-cpp-python (GGUF), scikit-learn, XGBoost, Prophet

PROFESSIONAL EXPERIENCE

AI/ML Engineer | 20four7VA | Remote

Oct 2025 – Present

Remote staffing company. Own design, implementation, testing and AWS deployment of the services below.

- **Executive email intelligence:** Built a multiuser Python service on AWS SAM (Lambda, SQS, DynamoDB) that ingests Graph mail/calendar webhooks, triages email by priority (LLM rubric + rules) and sends alerts and Pydantic validated briefs to Teams.
- **Teams AI assistant:** Built a streaming tool calling agent (18 tools) over Graph mail, calendar and transcripts that drafts replies and books meetings with delegated tokens behind Adaptive Card approval; briefs also exposed in Microsoft 365 Copilot.
- **Teams compliance monitoring:** Engineered a Graph change notification pipeline (API Gateway, SQS, Lambda) with a trigger filter (146 phrases), conversation context, redaction of 17 PII/secret types, and strict JSON schema classification against 11 policies, alerting managers in Teams.
- **Lead and meeting intelligence:** Built GoHighLevel/Zoom webhook pipelines (SQS, Lambda) for multistage LLM extraction, lead enrichment and scoring (DataForSEO, SerpAPI), and a RAG pipeline that retrieves past job descriptions (OpenAI embeddings) to ground new JD drafts.
- **Business continuity monitoring:** Built a scheduled Lambda matching GDACS and WMO alerts to ~200 geocoded staff locations (haversine, tiered 50/100 km; Shapely polygons) that sends deduplicated Teams alerts with escalation.
- **Reliability and testing:** Idempotent DynamoDB conditional writes, Graph subscription renewal, dead letter queues with CloudWatch alarms and per user data isolation; nearly 300 pytest tests (moto, fakes).

ML/AI Engineer | LifeBank (Nigeria) Ltd | Health tech and medical logistics

May 2025 – Oct 2025

- Fine-tuned Gemma 3 1B with QLoRA (PEFT) for hospital finance tasks (instruction alignment and domain adaptation), then migrated the assistant to Qwen, cutting inference latency by 20%.
- Automated AWS EC2 GPU training environment setup with Bash, reducing setup time by 40%.

Data Scientist, Financial Systems | LifeBank (Nigeria) Ltd

Jan 2025 – Apr 2025

- Built hospital financial forecasting models (revenue, cash flow, liquidity) with XGBoost and Prophet, blending an 80% naive baseline with 20% ML for robustness on sparse data.

Data Scientist, Healthcare Forecasting | LifeBank (Nigeria) Ltd

Oct 2023 – Dec 2024

- Built time series forecasting pipelines for blood, oxygen and medical stock demand, reducing stockout risk by 20%; added predictive maintenance models and scenario simulations.

SELECTED PROJECTS

LLM FastAPI Boilerplate | Python, FastAPI, llama-cpp-python, Docker | github.com/Anslemakadu/llm-fastapi-boilerplate

- FastAPI service for quantized GGUF models via llama-cpp-python (/generate, /chat with history, /health, Pydantic schemas); Dockerized on Hugging Face Spaces after iterating across Phi, Mistral 7B, Qwen2.5 and TinyLlama for CPU only hosting.

ElevatRAI | Python, Flask, scikit-learn, Render | github.com/Anslemakadu/ElevatRAI | elevatrai.onrender.com

- Flask app that parses PDF/DOCX resumes, matches skills to a JSON taxonomy (7 roles, 56 skills), ranks role fit by cosine similarity and builds a learning roadmap; deployed on Render.

EDUCATION

B.Sc. Computer Science | Institut Supérieur Saint Paul Tarse University, Cotonou, Benin Republic

2021