

NWACHUKWU AKACHI

AI ENGINEER

meetakachi@gmail.com · github.com/moseleydev · moseleydev.space · linkedin.com/in/moseleydev

PROFESSIONAL SUMMARY

AI Engineer with 4+ years of software engineering experience, specializing in multi-agent systems, LLM integration, and production AI backends. Author of Swarm Agent Kit — an open-source multi-agent orchestration framework published on PyPI. Built and shipped AI-powered products including a voice-enabled EdTech platform using RAG and LangChain. Background spans fintech, energy, and media, with strong full-stack depth. Seeking remote roles at AI-native startups and developer tooling companies.

OPEN SOURCE & PROJECTS

Swarm Agent Kit *Python · LangChain · LiteLLM · FastAPI · Redis · PyPI*

- Designed and published a production-ready multi-agent orchestration framework on PyPI, supporting 100+ LLM providers via LiteLLM.
- Implemented dual-mode orchestration — Unsupervised (autonomous agent handoffs) and Supervised (LLM-planned sequential pipelines).
- Built-in async execution, global state management, database persistence hooks (Redis, PostgreSQL, SQLite), and a real-time observability dashboard via CLI.
- Open source under MIT license with full documentation at moseleydev.github.io/swarm-kit

100Minds.ai *RAG · LangChain · LangGraph · Voice AI · AI Avatar*

- Engineered the core AI layer of a leadership training platform — including an intelligent voice-enabled tutor and an interactive AI avatar for immersive learning sessions.
- Built RAG pipelines to ground AI responses in curated training content, improving factual accuracy and reducing hallucinations.
- Integrated real-time voice AI to enable natural spoken interaction between learners and the AI tutor.

Atlas Desk *Next.js · AI Agents · NestJS · WhatsApp API*

- Architected an AI-first customer support ticketing platform with automated triage, routing tickets intelligently across WhatsApp, email, and chat widget.
- Designed the agent decision layer to classify, prioritize, and assign support tickets without human intervention.

Clinical AI Summarizer *Python · PyTorch · SciBERT · BERTsum · FastAPI · HuggingFace Spaces*

- Built an extractive summarization engine for Electronic Medical Records using fine-tuned SciBERT — chose extractive over generative deliberately to eliminate hallucination risk in clinical settings.
- Implemented BERTsum architecture: Greedy Matching algorithm to generate training labels, custom PyTorch classification head for sentence-level salience scoring.
- Achieved 43.75% ROUGE-1 improvement (0.2631 → 0.3782) over K-Means baseline after fine-tuning on a Tesla T4 GPU. Deployed via FastAPI on Hugging Face Spaces.
- github.com/moseleydev/extractive-summarization-system-for-medical-reports

Hate Speech Classifier *Python · PyTorch · RoBERTa · HuggingFace · FastAPI*

- Built a semantic hate speech detector on RoBERTa — selected over SciBERT specifically because RoBERTa was pre-trained on raw social media data, not formal text.
- Fixed the class imbalance trap with class weighting in the PyTorch loss function: a naive model scored 95% accuracy by predicting Safe every time, catching 0% of hate speech.
- Built emoji-to-text preprocessing pipeline, head-swapped the transformer to a [CLS]-token binary classifier, evaluated strictly on Precision, Recall, and F1-Score.
- github.com/moseleydev/hate-speech-detector

WORK EXPERIENCE

Software Engineer · Ikeja Electric PLC · September 2025 – Present

- Maintain and enhance internal systems for the Application Support team, ensuring high reliability and operational transparency.
- Built the iSafe Learning Platform — an AI-assisted onboarding tool that reduced new staff ramp-up time significantly.
- Implemented connection pooling, audit logging, and error tracking across core backend services.

Software Engineer · SurestPay Inc. · April 2024 – August 2025

- Engineered financial API integrations that cut partner bank and vendor onboarding time by 40%.
- Designed and shipped a real-time transaction monitoring dashboard with advanced analytics, improving operational efficiency by 30%.
- Built microservice architecture to ensure zero dropped transactions during traffic spikes.

Frontend Developer · Calm Global Information Technology · June 2023 – February 2024

- Delivered high-performance frontend features across healthcare, government, and cultural platforms.
- Improved frontend load times by 20% through performance optimization and code splitting.

Software Developer · Yougazine Inc. (Canada) · February 2021 – April 2023

- Built full-stack features including an interactive PDF/e-book flipper and payment gateway integration.
- Improved site performance by 20% through frontend and API-level optimizations.

TECHNICAL SKILLS

AI / ML: LangChain, LangGraph, RAG Pipelines, OpenAI API, HuggingFace, Voice AI, AI Agents, PyTorch, TensorFlow

Languages: Python, TypeScript, JavaScript, SQL

Backend: Node.js, NestJS, Express, FastAPI, REST APIs, Microservices

Frontend: React, Next.js, React Native, Tailwind CSS

Databases: PostgreSQL, MongoDB, Redis, Vector Databases

Cloud & DevOps: AWS, Microsoft Azure, Docker, Git, CI/CD

EDUCATION & CERTIFICATIONS

BSc Computer Science · Nnamdi Azikiwe University · GPA: 4.1

Software Engineering — African Leadership X (ALX Africa)

AI Copilot Certification — Andela