

Olanrewaju Lawal

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[\[LinkedIn\]](#) | [\[Portfolio\]](#)

PROFESSIONAL SUMMARY

Full-Stack Engineer & AI Specialist with 5+ years of experience developing and deploying full-scale AI/ML systems and AI applications. Expertise in MLOps, backend architecture, and scalable pipelines. Led impactful AI initiatives in governance, education, and social development. Skilled in Docker, Kubernetes, AWS, Terraform, LLM-based systems, and secure RESTful APIs. Passionate about building ethical, responsible AI for sustainable impact.

CORE COMPETENCIES

Programming & Frameworks: Python, FastAPI, JavaScript, TypeScript, Dart, React.js, Next.js, Node.js, Express.js, Tailwind CSS

AI & ML: PyTorch, TensorFlow, Transformers, LLMs, LangChain, Llamaindex, Langgraph, Hugging Face, RAG

Databases & Data Engineering: MongoDB, PostgreSQL, MySQL, Pandas, Scikit-Learn

DevOps & Cloud: Docker, Kubernetes, Helm, AWS, API Gateway, CI/CD, Terraform

Mathematics & AI Foundations: Linear Algebra, Calculus, Probability

Soft Skills: Leadership, Technical Writing, Research, Problem-Solving, Collaboration

PROFESSIONAL EXPERIENCE

Software Engineer & Machine Learning Engineer

EqualyzAI, Lagos, Nigeria • August 2023 – Present

1. Developed and maintained RESTful APIs powering an Generative AI Governance Readiness Assessment Platform deployed across Lagos, Kaduna, and Kano. [\[FE\]](#) [\[BE\]](#)
2. Implemented AWS-native ML workflows with SageMaker, Lambda, and S3, ensuring scalable and cost-efficient AI deployments.

3. Built and co-developed the backend of a scalable Data Collection Platform using TypeScript, Express.js, and MongoDB. [\[Link\]](#)
4. Deployed DIGIT 2.9LTS backbone, business, and municipal services on AWS EKS using Terraform, Helm/Helmfile, and Kubernetes, ensuring secure, scalable, and production-ready infrastructure for government digital services
5. Provided AI/ML engineering, MLOps, and full-stack code review support to multiple African startups through DSN's DPI Sandbox program, enabling integration of GenAI models, local language translation, and secure DPI services (NIN/BVN)
6. Created uLearn, an AI-powered learning platform showcased at GITEX Africa Morocco 2024. [\[Link\]](#)
7. Integrated LLaMA 3 and AWS Bedrock models into production for scoring and recommendation engines.
8. Architected and deployed MLOps and RAG pipelines enabling dynamic prompting and real-time feedback.

AI Researcher & Full-Stack Developer

Data Science Nigeria (DSN) • January 2022 – July 2023

1. Built AI-driven web applications using React.js, PostgreSQL, and MongoDB to support learning and digital inclusion programs.
2. Fine-tuned NLP models for Yoruba-language science education, managing dataset curation, annotation, and preprocessing pipelines.
3. Integrated chatbot APIs and scoring models for AI coaching systems, improving student learning engagement.
4. Designed and implemented AI-powered APIs with LangChain, LlamaIndex, and LangGraph, incorporating AWS Lambda for cloud-native deployment.
5. Collaborated with cross-functional teams to align AI solutions with AWS Well-Architected Framework, ensuring scalability, security, and performance

EDUCATION

B.Sc., Metallurgical & Materials Engineering
University of Lagos • 2015 – 2021

CERTIFICATIONS

- ALX Africa: Diploma in Software Engineering (Frontend & Backend Track)
- Deep Learning Specialization – Coursera
- Microsoft Azure AI Fundamentals – Microsoft
- Linear Algebra from Elementary to Advanced – Coursera
- AI for Absolute Beginners Program – (2021)
- Machine Learning Certificate of Participation
- The Applied Data Science Lab – WorldQuant University

PUBLICATIONS & CONFERENCE PRESENTATIONS

1. Contextual Evaluation of LLM's Performance on Primary Education Science Learning Content in Yoruba Language – ICLR 2024 (AfricaNLP), Vienna. [\[Link\]](#)
2. AI in Yoruba STEM Education for Early Childhood Learning: A Study on Translation Quality and Context. [\[Link\]](#)
3. Geo-Visualization of Road Accident & Traffic Congestion Hot-spots Using Social Media Data. [\[Link\]](#)
4. Invited speaker at:
 - I. ICLR Singapore 2025 [\[Link\]](#)
 - II. Global AI Summit Rwanda 2025 [\[Link\]](#)
 - III. Lighting Talk - Deep Learning Indaba, Kigali 2025 Human AI Interaction Workshop. [\[Link\]](#)
5. Presenter: GITEX Africa Marrakeh 2024 [\[Link\]](#); IndabaX Nigeria 2021; MIRG-ICAIR 2024

AWARDS & HONORS

- **Project Ownership Award (2023)**: Spearheaded the development of *uLearn*, an innovative learning platform that was showcased at **GITEX Africa 2024**, positioning the organization on a global stage of technology and innovation.
- **Most Resourceful Staff (2024)**: Honored for pioneering contributions in **AI research and full-stack development**, driving the organization's recognition as a leader in cutting-edge digital solutions

VOLUNTEERING & COMMUNITY ENGAGEMENT

- Workshop Facilitator: LangChain for LLM in Education – IndabaX Nigeria 2024 [[Link](#)]
- Agentic AI Workshop Leader with DeepTech Ready. [[Link](#)]
- Led an LLM Hands-on Training at Data Science Africa, 2025. [[Link](#)]
- Lead Mentor (AI & ML), Data Science Nigeria (2023–Present)
- Azure Volunteer Trainer, Microsoft (2023) — trained 150+ learners

HACKATHONS & COMPETITIONS

- Participated in Kaggle & Zindi AI challenges focused on healthcare, energy transition, and education sectors.