

Oduguwa Damilola John

Software Engineering (Machine Learning)

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[in linkedin.com/in/oduguwa-damilola](https://www.linkedin.com/in/oduguwa-damilola) [📍 Lagos, Nigeria](#)

EXPERIENCE

Machine Learning Engineer (remote)

08/2024 – present
Louisiana, USA

AIpplier

- Designed an LLM-based web automation agent built using Selenium and Langgraph.
- Designed a multi-agent workflow for automating job applications and creating job-tailored applications.
- Implemented FASTAPI endpoints for interacting with other backend systems.
- Collaborated with backend engineers to implement efficient storage and retrieval systems for job listings and user profiles, ensuring data privacy and security.
- Implemented continuous integration and development practices.

Machine Learning Engineer

01/2024 – 05/2024
Lagos

Sienna AI [🔗](#)

- Designed and deployed RAG systems built using Langchain and LlamaIndex
- Built LLM agents for interacting with the Solana blockchain, search engines, and databases
- Implemented custom function-calling for Llamaz
- Deployed REST APIs for multimodal LLM serving

Machine Learning Research Intern

2021 – 11/2022
Lagos

Nithub Unilag AI Research

- Finetuning Yolov5 on traffic-lane detection as a part of a Traffic Optimization system
- Designed a real-time CCTV based prediction system using AWS Greengrass, AWS Kinesis for image storage and streaming, and AWS Lambda for triggering inference.

EDUCATION

Bsc.Computer Engineering

09/2019 – 2026
Lagos, Nigeria

University of Lagos

Grade:

Second Class Upper

Technical Focus:

Artificial Intelligence and Software Systems.

Relevant Coursework

- Data Structures and Algorithms, Digital Electronics, Machine Learning.

Extracurricular :

Member IEEE, Student Branch.

Second Runner-up, Engineering Academic Research Board Quiz Competition.

SKILLS

- Programming Languages: Python, C++, Bash.
- Machine Learning: PyTorch, NumPy, Pandas.
- Cloud & DevOps: AWS (Lambda, ECR, Kinesis), Docker, Git
- Web Development: FastAPI, REST APIs


PROJECTS

SabiYarn [🔗](#)

Trained a foundational decoder only language model for Nigerian Languages

- Terabyte scale data collection of Nigerian Language data ranging across historical, cultural, scientific, and literature text.

- Implemented model and data parallel distributed processing systems for LLM pretraining.
- Implemented systems for model monitoring, logging and evaluation
- Co-authored a research paper on model architecture and pre-training schemes.

Zeeno 

A website that lets users find books about any topic, description or period of history, using Semantic search.

- Semantic search/ information retrieval-based recommendation engine for books
- Finetuned embedding and Reranking models.
- Model served as a REST API endpoint deployed serverlessly on AWS lambda.
- Deployed a CI/CD pipeline that builds and pushes container images to AWS ECR