Damilola John Oduguwa

Software Engineering (Machine Learning)

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EXPERIENCE

Machine Learning Engineer   08/2024 – present
Aipplier   Louisiana, USA
- 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 and data privacy and security measures
- Implemented continuous integration and deployment practices

Machine Learning Engineer   01/2024 – 05/2024
Sienna AI 🔗   Lagos
- 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 Llama2
- Deployed REST APIs for multimodal LLM serving

Machine Learning Research Intern   2021 – 11/2022
Nithub Unilag AI Research   Lagos
- 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 – 2025
University of Lagos   Lagos, Nigeria

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

SKILLS

- Python, Pytorch, AWS/GCP, FASTAPI , Docker
- C++, Bash scripting, Git, Numpy, Pandas.