

Abiodun Uthman Allison

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LINKS

Github: github.com/alliwene

LinkedIn: [linkedin.com/in/uthmanallison](https://www.linkedin.com/in/uthmanallison)

SKILLS

TECHNICAL

Python

TypeScript

Finetuning LLMs

AI Agents

Software Design

SQL

Bash shell scripting

Node.js

NestJS

REST API development

Redis

SOFTWARE

TensorFlow

Pytorch

LangGraph

Git and Github

Docker

Jira

EDUCATION

SOFTWARE DEVELOPMENT

ELEV8, MICROSOFT

2022

AWS RE/START

AMAZON WEB SERVICES

2021

MS, MATHEMATICS

UNIVERSITY OF IBADAN

2018 - 2021

Dissertation: Optimizing Deep Neural Networks and Classifying Plant Disease using ConvNets

BS, MATHEMATICS

FEDERAL UNIVERSITY OF

AGRICULTURE, ABEOKUTA

2011 - 2015

EXPERIENCE

TOG LAB | BACK-END ENGINEER

June 2023 – Present | Remote

- Utilized a RAG workflow with LangChain, TypeScript, React, and Next.js to construct a chatbot. The content of the company website served as a knowledge base.
- Employed Redis for session management and chat history.
- Designed a multi-agent chatbot using Flowise AI and Pinecone vector store.
- Developed Python code to manage documents in the vector store using Unstructured and LangChain.
- The solution was deployed via AWS Lambda, triggering document changes in an S3 bucket.
- CI / CD implementation with AWS CodePipeline and managed infrastructure using AWS CDK.
- Designed and maintained scalable backend services using NestJS

TOG LAB | BACK-END ENGINEER INTERN

August 2022 – May 2023 | Remote

- Developed REST APIs using NestJS for a platform that simplifies building and managing professional websites.
- Designed and implemented PostgreSQL database schemas for efficient data retrieval and storage.
- Implemented Redis caching to enhance performance and reduce database load.
- Documented API endpoints using Swagger.
- Collaborated with front-end developers to integrate APIs into web applications.

HIIT PLC. | AWS CLOUD INSTRUCTOR

June 2022 – September 2022 | Remote

- Instructed students on AWS core services—including compute, storage, networking, security, and databases—to prepare them for the AWS Cloud Practitioner exam.
- Hands-on sessions were led using both the AWS console and the command line interface to reinforce practical skills.

RURAL FARMERS HUB | MACHINE LEARNING ENGINEER INTERN

Aug. 2020 – Oct. 2020 | Remote

- Annotated farmland boundaries using geospatial imagery on Google Earth during the data collection phase for an automatic farm boundary detection project.
- Executed a satellite imagery preprocessing workflow as part of a computer vision team using Python. The processed images were used to feed a convolutional neural network model to digitally map key soil nutrients.