

# Abiodun Uthman Allison

Lagos, Nigeria

<https://uthmanallison.github.io>

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## LINKS

Github: [github.com/alliwene](https://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 – March 2025 | 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.