OYEBAMIJI, MUSTAPHA OYETUNDE

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SKILLS

- *Python(Flask, Django), Nodejs(Express), JavaScript, Golang, Git, C/C++, SQL(MySQL, PostgreSQL), MongoDB, DyanmoDB, Shell Scripting.*
- *Linux, Nginx , Haproxy, Docker, CSS, HTML, Pandas, Numpy, Sci kit-Learn and PyTorch.*
- *Operating System(Linux), Microservices, Backend, Agile.*

Work Experience

Backend Engineer | *Peeriva*
January 2025 – April 2025

- *Notification Service: Built a scalable notification system using Redis as a message listener, processing messages from micro-services and frontend requests. Implemented Amazon SQS for queue-based delivery and enforced rate limiting for controlled distribution.*
- *Activity Service: Developed a user activity analytics pipeline, leveraging Amazon DynamoDB for efficient storage and retrieval. The service supports user insights, admin monitoring, and machine learning model training.*
- *Search Service: Designed a comprehensive search architecture spanning multiple databases, integrating AWS OpenSearch for efficient indexing and retrieval across diverse data sources.*
- *Optimized system performance with Redis caching, lazy loading, and distributed data processing.*
- *Worked extensively with Django, Redis, PostgreSQL, AWS DynamoDB, AWS OpenSearch, AWS Amazon SQS, and microservices architecture.*

***NGREEN LOGISTICS**: Backend Developer*

- *Designed, developed, and deployed the backend of the logistics application using the MERN stack (MongoDB, Express.js, Node.js).*
- *Built RESTful APIs to manage core functionalities such as user authentication, shipment tracking, and order management.*
- *Integrated error handling, logging mechanisms, and security best practices (e.g., JWT authentication and input validation).*
- *Implemented database schema and optimized queries to ensure efficient handling of large datasets.*
- *Collaborated with clients to refine requirements and iterated on feedback to deliver a user-focused solution.*

***APIENG**: Backend Developer Intern*

- *Contributed to the development of an API monitoring system designed to measure the energy consumption of each endpoint using Go (Golang).*
- *Collaborated with a team to implement scalable solutions, focusing on micro-services architecture and API design.*

***HelpBot**(ALX SE FINAL PROJECT): Backend Developer*

- *Developed the backend for HelpBot, an AI-powered application that analyzes PDF documents and answers user queries based on the content.*
- *Built the backend using Node.js, implementing features for PDF parsing, natural language processing(using openai api), and efficient query-response handling.*
- *Integrated the backend with the frontend (built with Vite) to enable seamless interaction and dynamic responses.*

***TIME MINDER**(ALX SE): FullStack Developer*

- *Designed and developed Time Minder, a project management software for scheduling and managing tasks, from the ground up.*
- *Built the application using Flask for the backend, MySQL for database and HTML, CSS, and JavaScript for the frontend, ensuring a responsive and user-friendly interface.*
- *Deployed the application using Nginx and HAProxy, enabling load balancing and high availability.*
- *Authored comprehensive project documentation, including user manuals and system workflows, to support maintenance and scalability.*
- *Delivered a fully functional and robust system as part of the ALX Program, showcasing a balance of development and deployment expertise.*

Machine Learning Engineer | Personal Projects
January 2024 – Present

- ***Brain Tumor Detection****: Built a custom convolutional neural network (CNN) and fine-tuned a ResNet model to classify brain tumors from MRI images. Focused on image preprocessing, model evaluation, and generalization. I also created a simple web app to demonstrate the model's predictions in real time.*
GitHub Repo | Medium Article

- ***Fine-tuning GPT-2 for Sentiment Analysis****: Rebuilt the GPT-2 architecture and trained it on a custom dataset to perform sentiment classification. Worked on tokenizer setup, model fine-tuning, and adapting the LLM for downstream tasks.*
GitHub Repo

- ***Fraud Detection System****: Developed a machine learning model to flag potentially fraudulent financial transactions using patterns in monetary data. Deployed a small web interface to simulate testing and prediction workflows.*
GitHub Repo

- ***Facial Emotion Recognition****: Built a model that detects human emotions from facial images. The solution includes a simple web app where users can upload photos and get predictions like happy, sad, angry, or surprised.*
GitHub Repo

- *Most of these projects were developed using Python, PyTorch, TensorFlow, scikit-learn, OpenCV, and HuggingFace Transformers, with web deployment done using Flask or Streamlit. They reflect my interest in solving real-world problems with practical ML applications.*

Education

Federal University of Technology, Akure, Nigeria
B. ENG, Computer Engineering ***(2022-Present)***

- *Relevant Course Work: Discrete Mathematics, Data Structure and Algorithm, Python Programming, Programming in C, Visual Basic*

Professional Training

- *ALX Software Engineering, ALX AFRICA CERTIFICATE*
- *JavaScript Data Structure and Algorithm – FreeCodeCamp, ORG. 2022 CERTIFICATE*

PUBLICATIONS(ARTICLES)

- *Brain Tumor Detection using MRI Scanned Images.*
- *Processes on Linux*
- *What Happens When You Press Google.com and press enter on a browser*

PROFESSIONAL MEMBERSHIP

- ***Skill Development Lead****, Google Developer Group on Campus(GDGOnCampus), FUTA (2024/2025)*
- ***Boot-camp Lead,*** *Google Developer Student Club(GDSC), FUTA (2023/2024)*