Timi Taiwo

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SUMMARY

MSc Computer Science graduate with a passion for building data-driven applications. Proven skills in Python, SQL, Machine Learning and cloud technologies (AWS, GCP) make me a strong candidate for both data engineering and backend development roles. Seeking a challenging position where I can leverage my expertise to create innovative solutions and contribute to the success of a data-centric organization.

WORK EXPERIENCE

BGC Group | Technology Intern | July 2022 – September 2022

➢ **Developed and implemented data pipelines in Python** to merge data from disparate sources (XML files and SQL databases), enabling efficient data processing and analysis for downstream applications.

➢ **Enhanced data visibility** through the design and implementation of OBIEE dashboards, providing stakeholders with real-time monitoring of automated email reports and financial performance across teams.

➢ **Gained experience working across the full development lifecycle, collaborating with stakeholders** to gather requirements, implement solutions, and **communicate progress effectively.**

➢ **Demonstrated analytical and problem-solving skills** by developing and training a predictive time-series model in Python to forecast database capacity, optimizing resource allocation.

➢ **Contributed to a team environment** while adhering to strict change management and source control practices using **Git**.

SKILLS

➢ **Programming Languages:** C/C++, Java, Python, JavaScript, SQL, MongoDB.
➢ **Data Engineering:** Airflow (Data Workflow orchestration), Exploratory Data Analysis (EDA), Data Processing (Modelling, Ingestion, Cleaning and Validation, Integration, Storage and Visualization).
➢ **Machine Learning:** Neural Networks/Deep Learning, Time Series/Modelling,
➢ **Data and ML Tools:** NumPy, Pandas, SciPy, TensorFlow
➢ **Cloud Technologies:** Containers (Docker), Terraform (Infrastructure Automation), Cloud Technologies (AWS, GCP), Nginx.
➢ **Backend Development:** Spring Boot, Flask, FastAPI, NodeJS
➢ **Software Best Practices:** Unit Testing (JUnit, CTest), Version Control (Git), SDLC, Agile/Scrum Methodology.
➢ **Operating Systems**: Linux, Windows
➢ **Soft skills:** Creativity, Teamwork, Critical and Analytical Thinking, Adaptability, Leadership, Time management, Persuasion.

EDUCATION

MSc Computer Science

Birkbeck, University of London, United Kingdom | September 2023 – Present

Main Modules: Software Design and Programming, Internet and Web Technologies, Programming in Java, Data and Knowledge Management.

Dissertation: Designed and implemented a configurable compiler toolchain using **C/C++** and **LLVM** to allow programming in multiple natural languages e.g. French, Yoruba etc. Demonstrated advanced programming skills and an understanding of compiler technology. This project involved the **SDLC**, **Agile Development** and **Test-Driven Development** approach.

BEng in Electronics and Electrical Engineering
Brunel, University of London | August 2020 – July 2023
Main Modules: Artificial Intelligence Systems, Autonomous Systems Design, Advanced Computing Techniques, Advanced Electronics, Microcontroller Group Design Project.
Dissertation: Designed and implemented an AI-powered system for remote infrastructure monitoring using **Python** and **TensorFlow** on a **Linux** platform (Raspberry Pi), gaining practical experience with **Linux environments** and **scripting.**

TECHNICAL PROJECTS

Infrastructure Monitoring using AI | October 2022 – March 2023

➢ Developed an AI-powered system to monitor remote infrastructure using **Python and TensorFlow.** (GitHub)

- ➤ Implemented an image preprocessing pipeline using **TensorFlow**.
- ➤ Deployed the trained model to a **Raspberry Pi** which ran on the **Raspbian Linux Distribution**.

Local Language Model (ChatGPT-esqe application) | November 2024

- ➤ Built a web application to interact with a Language Model hosted locally. ([GitHub](#))
- ➤ Implemented a RESTful API using **Python** libraries (**Flask, PyTorch, Transformers**) that processed user prompts, managed requests to the models and returned **HTML** pages created using **Jinja** templates.
- ➤ Styled using CSS.

Movies Review API | October 2024

- ➤ Built a service/API to track metadata on released movies and customer sentiment (i.e. reviews). ([GitHub](#))
- ➤ Implemented the **API** using **Java SpringBoot** and stored movie details and reviews on a **MongoDB Atlas** cluster (MongoDB's managed database cloud service)
- ➤ Tested the API using a **REST client** called **Bruno**, a **Postman** alternative.
- ➤ Deployed the application to **AWS (EC2)** using **Terraform** to create and destroy the EC2 instances
- ➤ Performed sys admin tasks on the EC2 Compute instances (Linux) e.g created users, set permissions, configured daemon services (Nginx)

LANGUAGES and EXTRACURRICULAR ACTIVITIES

- ➤ **Languages:** French (Basic).
- ➤ **Extracurricular Activities:** Volunteered at the Open Data Science Conference (ODSC) Europe 2019 conference.