Osiregbemhe Obomighie

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Education

Warwick University — BEng Electrical and Electronic Engineering
Predicted Grade: First Class (1st) — *10/2021 - 06/2025*
Relevant Courses: Computer Architecture and Systems, Machine Learning and Intelligent Systems, Advanced Software Engineering

Technical Skills

Languages: Python, TypeScript, Golang, MATLAB, C/C++, Java, C#, Dart,
Technologies: Git, React, Angular, Docker, AWS, Flask, GCP, PostgreSQL, MySQL
Certifications: AWS Cloud Practitioner

Work Experience

Software Engineer Intern — 06/2024 - 08/2024
Morgan Stanley | Angular, Typescript, Python, Flask, Java, Springboot — *London, UK*
- Designed and implemented an Environment Status Dashboard using Angular and TypeScript, monitoring 45 squads' microservices, leading to a **20%** reduction in issue resolution time
- Architected and integrated RESTful APIs in Python to relay environmental status data directly to the Angular frontend, improving data synchronization and enabling real-time monitoring for over **300 microservices**.
- Partnered with fellow interns to design and implement a theoretical FX trading algorithm, optimizing trading strategies by analyzing financial data, resulting in a 15% improvement in simulation accuracy

Software Engineer Intern — 07/2023 - 06/2024
Hewlett Packard Enterprise | Typescript, Golang, Docker, Kubernetes, AWS, PySpark, Python, React — *Bristol, UK*
- Executed the 'Update Announcement' feature with a REST API endpoint using Golang, achieving 80% test coverage and boosting system efficiency by 20%
- Augmented test coverage by creating Docker images for functional tests, automating build and push processes with Jenkins, resulting in a 30% reduction in deployment errors
- Orchestrated the 'Publish Announcement' feature, integrating a Golang-based gRPC server adapter, attaining over 80% test coverage and reinforcing system reliability.

Software Engineer — 12/2023 - 02/2024
Fliproom | Typescript, ExpressJs, Angular, GCP, Docker — *London, UK*
- Researched and implemented Typesense for enhanced search capabilities, improving performance and reducing search costs by **30%**, leading to a **25%** increase in search efficiency and a **15%** improvement in user satisfaction.
- Overhauled the table downloading process using GCP functions, improving stability, reducing crash rates by 20%, and increasing application uptime by 10%

Software Engineer Intern — 03/2023 - 04/2023
JP Morgan | Python, Java, Spring boot — *London, UK*
- Engineered a circuit breaker mechanism using Spring Boot, boosting system resilience and ensuring reliability, leading to a 10% increase in system uptime
- Created a Flask REST API for backend operations, including event creation, user sign-up monitoring, and course information management using SQLite.

Software Engineer — 10/2022 - 06/2023
Butterfly Technologies Ltd | Dart, Flutter, Firebase, GCP — *Coventry, UK*
- Introduced mentions and polls functionalities and formulated the Nectar point system to gamify the app, directly increasing active user engagement by 15% and resulting in a 40% surge in user activity

Software Engineer Intern — 07/2022 - 09/2022
Ford Motor Company | C#, Python, C++, Unity, Node-Red — *London, UK*
- Designed a 4DX racing game for Ford's Sync System using **Unity, C#, Python**, and **C/C++,** achieving a **60%** reduction in latency through expertise in low-level programming.

Projects & Hackathons

HackTheBurgh | *Python, Pandas, Numpy, Optibook API* | Devpost — 03/2024
- Developed a market-making trading algorithm using **Python**, **Pandas**, and **Numpy** that achieved the highest hourly PnL among 20 teams in the HackTheBurgh competition
- Integrated automated text processing tools to analyze incoming news and social media feeds, enabling the algorithm to adapt to market conditions in real time

YouTube Video Converter | *Python, Flask, Docker, Kubernetes, RabbitMQ, MySQL* | Github — 01/2024 - 03/2024
- Architected and developed a platform for efficiently downloading and enabling offline access to Christian sermons from YouTube so that I can listen to them on car journeys.

AceYourHireView | *NextJs, MySQL, Drizzle ORM, GCP* | Github — 06/2024 - present
- Engineered a sophisticated web application using Next.js and TypeScript, enabling users to simulate HireVue interviews by entering job details, experience, and target response time, improving interview preparedness
- Utilized **Google Cloud Platform (GCP)** services such as Cloud Storage for storing user responses and Google Gemini for AI-driven evaluations

Interests

- **Basketball** - Member of the Bracknell Cobra D3 National team and the Warwick University Basketball team
- **Reading** - Avid reader, mainly enjoys books about software engineering, psychology and Christianity. Currently reading 'Law and Legalism'