Farouq Oguntoye

Software Engineer

Innovative backend developer and systems engineer with expertise in Python, C++, and data-driven applications. Experienced in designing high-performance backend systems, optimizing database efficiency, and implementing custom memory solutions.

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WORK EXPERIENCE

Systems Engineer
Lifestores Pharmacy

09/2022 - 08/2024 *Lagos, NG*

Achievements/Tasks

- Designed a real-time order processing system for an e-commerce platform using C++, processing over 500 orders per hour with sub-second response times.
- Developed a custom memory management library in C++ to reduce memory usage and improve system throughput by 25%.
- Created a high-performance logging and telemetry framework in C++ to monitor critical backend systems, enabling faster issue detection and resolution.

Backend Engineer
Ultra Cloud Technologies

08/2021 - 06/2022

Achievements/Tasks

- Developed and maintained RESTful APIs using Flask, supporting over 1,000 daily requests in a user authentication service.
- Implemented database migrations and optimized SQL queries, reducing average query time by 30% for a customer management system.
- Collaborated with DevOps to containerize backend services using Docker, enhancing deployment efficiency and scalability.

EDUCATION

Diploma in Mechanical Engineering
Federal Polytechnic, Ado Ekiti

06/2019 *Ekiti, Nigeria*

Bachelor of Science in Applied Geophysics
Obafemi Awolowo University, Ile-Ife

07/2024 *Osun, Nigeria*

SKILLS

C++ | Python | JavaScript | Flask | Pandas | Scikit-Learn | Sqlite | Git | Machine Learning

PERSONAL PROJECTS

Custom Memory Allocator (C++)
- Designed a high-performance, thread-safe memory allocator with multiple allocation strategies and STL container support to optimize memory usage across applications.

Pharmaceutical Research Data Pipeline (Python, SQLite, API)
- Engineered an automated data pipeline to collect and analyze clinical trial data from ClinicalTrials.gov.
- Implemented data scraping, processing, and storage using Python and SQLite, creating visualizations to display trial distributions by phase and condition.

Market Data Pipeline (Python, C++)
- Developed a trading simulation model, with components for hardware modeling, network simulation, and a C++ core engine controlled through a Python interface.

Data Visualizer Dashboard (Python, JavaScript, Flask, Pandas, Plotly)
- Built a Flask-based web application to visualize data, enabling users to analyze large datasets interactively.
- Utilized Pandas for efficient data processing, combined with Plotly for interactive data visualizations, displaying metrics and outcomes.

LANGUAGES

English
Native or Bilingual Proficiency

French
Professional Working Proficiency