Richard Quaicoe Software Engineer

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I am a result-oriented Software Engineer (QA testing and backend focused) with years of experience working with Data, SaaS and a multi-national financial institution. Technologies I have worked with include Python (Flask, Django and FastAPI).

💼 Work Experience

Morgan Stanley, Software Engineer   01/2022 – present
QA/Testing for Low Latency Execution Systems   Remote
- Achieved maximum application uptime by setting up a DNS failover recovery system that routinely checks trading application's health and recover disconnected apps.
- Increased application's test quality by 90% by optimizing flaky tests using the Testplan framework.
- Implemented CI/CD pipelines ensuring zero application downtime.
- Proficiently reimplemented 95% of tests for trading engine critical components including Order Books and smart order routers leveraging various communication protocols such as FIX.
- Developed log rotation strategies and a remote file-transfer system, improving log management efficiency and reducing retrieval time drastically.
- Actively contributing to the Morgan Stanley Testplan **open**-**source** project, demonstrating a commitment to industry collaboration and innovation.

Tooling: Python, C++, FIX, Flask, Jenkins, Testplan ↗ , Bash, Linux, DevOps.

Turntabl Ghana Limited, Software Engineer III   09/2021 – present
                                                                                              Accra, Ghana
- Implemented high frequency trading engine with the best tick-to-trade latency under 5 milliseconds on stock products using Java Spring Boot framework.
- Supervised a team of five developers, ensuring project success through guidance and feedback.
- Engineered a synthetic data generator enhancing data privacy using GAN and HMA ML algorithms with near perfect synthetic data accuracy.
- Led my team to the finals of the company's hackathon and got assigned to Morgan Stanley Low Latency Execution Team.

Tooling: Microservices, Python(FastAPI), SQLAlchemy RabbitMq, Machine learning, PostgreSQL, FIX, Java.

Ministry of Food and Agriculture, Software Engineer   08/2020 – 08/2021
                                                                                                   Accra, Ghana
- Spearheaded the setup of a MySQL database, Redis, ELK stack and RabbitMQ on a Linux server to enable smooth testing and deployment of the POS system.
- Led a team of three to build and deploy a real-time monitoring system for agricultural resources using Django REST framework, enhancing resource allocation efficiency.
- Built a log parsing web service using Flask which extracted data points from log files. This contributed to easier visualization and monitoring of SMS traffic performance metrics.

Tooling: Python, MySQL, ReactJs, AWS, Docker, ELK

🎓 Education

Bsc Computer Engineering,   09/2016 – 08/2020
Kwame Nkrumah University of Science and Technology   Kumasi, Ghana

- Undergraduate Thesis "Design of a Human Facial Recognition Based Student Attendance System".

📂 Projects

Episode, A python backend framework with rich features. ⎋

Testplan, An Open Source Multi-testing Framework. ⎋

Pytql, Python Table Data Type with some SQL-like operations.
   Pytql ⎋

Human Facial Recognition Based Student Attendance System

🧠 Skills

Testing and Automation │ Concurrency, multi-threading & synchronization │
Object oriented analysis and design │ Python │ C++ │ JavaScript │ Typescript │
Django/Flask/FastAPI │ Linux