Taofeek Obafemi-Babatunde

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SUMMARY

Versatile software engineer with years of experience encompassing proven success in optimizing DevOps processes, improving software performance, and facilitating smooth transitions to new technologies. Adept at leveraging an extensive skill set to drive efficiency and innovation in complex projects.

SKILLS

Programming Languages: C#, Scala, Scripting, Q#, Python, JavaScript, MySQL, Solidity, TypeScript
Libraries & Frameworks: Kivy, NumPy, Pandas, OpenCV, Expo.js, Node.js, NativeScript, React, PySpark, SciPy
Tools & Platforms: Amazon Web Services, Docker, Microsoft Azure, Netlify, Heroku, Git, Google Cloud Platform

RELEVANT EXPERIENCE

Microsoft Corporation
Software Engineer June 2021 – Present

- Owned platform diagnostics for Microsoft Graph by managing GraphLogs and IcM routing end-to-end, improving incident triage efficiency and reducing operational load across partner teams.
- Delivered key architectural features for Graph Bicep, enabling its first public preview; implemented stream property modeling, typed relationships, and scalable singleton support used by internal and external IaC contributors.
- Increased reliability of Microsoft 1P application provisioning by standardizing authentication behavior, eliminating roll-out inconsistencies, and reducing deployment failures at scale.
- Improved cloud capacity and regional resilience through shard-count expansions, quota uplifts, and removal of dormant feature flags tied to expired ownership.
- Drove high-safety production rollouts across Canary and Prod rings, shipping hotfixes, reversions, and release orchestration for AGS weekly deployments.
- Strengthened engineering hygiene and observability by enhancing telemetry pipelines, improving GraphLogs deep-link automation, and updating live-site run books/TSGs.
- Partnered cross-team (ARM, RP, DxP, AGS) to align platform behavior, accelerate unblockers, and deliver foundational capabilities used across Microsoft Graph services..

Data Engineering and Predictive Analytics Laboratory
DevOps Engineer May 2020 – May 2021

- Cut segmentation process time by 50% by developing a Python-based application for automated segmentation of data pulled from an API in preparation for a Machine Learning model.
- Achieved 95% uptime for cloud database by maintaining a CI/CD pipeline to implement an autonomous coalition of data from social media platforms on a daily basis.
- Successfully disambiguated and demonstrated a network graph showing relationships between multiple users with a 90% accuracy.

EDUCATION

M.Sc in Advanced Computing, Morgan State University 2022
M.Eng in Electrical and Computer Engineering, Morgan State University 2021
B.Sc in Electrical and Computer Engineering, Morgan State University 2020

RESEARCH PUBLICATIONS

A Review of Improvements in Shor's Algorithm using IBM Q Composer
International Business Machines Corporation, Morgan State University

- Explored and detailed significant advances regarding improving the depths of Shor's Algorithm for factorization of complex demi-prime numbers with a 75% accuracy using python3, Qiskit, QASM and Q#
- Authored a research paper showcasing the experimental findings conducted towards the advancement of Shor's algorithm.

Automated Detection and Quantification of Transverse Cracks on Woven Composites
Morgan State University, John Hopkins, U.S. Army DEVCOM Army Research Laboratory

- Leveraged MATLAB and CAD to design and develop software for analyzing and assessing the performance of tested materials based on predefined criteria.
- Co-Authored a research paper showcasing the experimental findings and presented them to key stakeholders within the US Army.
- Developed a cross-platform mobile application which employs a MATLAB algorithm to increase functionality by 60%