Taofeek Obafemi-Babatunde

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SUMMARY

Versatile software engineer with over 4 years of experience, including a strong background in software development, deployment and maintenance. Proven success in optimizing DevOps processes, enhancing 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#, IBM Qiskit, Q#, Python, JavaScript, MySQL, PowerShell, Solidity, TypeScript, Scala
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 Redmond, WA
Software Engineer May 2021 – Present
Tech Stack: C#, Azure, PowerShell, Git

- Maintaining and updating the Microsoft Graph SDK for PowerShell while improving the DevOps experience for Microsoft PS users by 45% using C#, PowerShell and Git
- Reduced bugs and addressed customer issues on Azure Global Support API Gateway Service by 75% using C# and Microsoft Azure Services
- Spearheaded the deprecation of MS Online and Azure AD PowerShell while migrating existing customers onto MS Graph with a 90% success rate using C#, PowerShell and Microsoft Azure Services

International Business Machines Corporation (Remote) Baltimore, MD
Graduate Quantum Researcher December 2020 – May 2021
Tech Stack: Qiskit, Python, MATLAB, Q#, Rust

- Created novel quantum machine learning algorithms for the sole purpose of testing on the IBM Quantum Experience platform using IBM Qiskit.
- Researched quantum key distribution protocols and their security implications while developing a quantum cryptographic systems prototype using Python and MATLAB.
- Increased project efficiency by 10% by improving the existing work done on Retworkx: a general purpose graph library for python3 written in Rust to take advantage of the performance and safety that Rust provides.

Data Engineering and Predictive Analytics Laboratory (Remote) Baltimore, MD
DevOps Engineer May 2020 – December 2020
Tech Stack: Python, AWS, MySQL

- 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

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

- Conducted extensive experiments to evaluate and identify optimal armor solutions for the US Army.
- 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 Army.