

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#, 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

Software Engineer

Summer 2021 – Present

Tech Stack: C#, Azure, PowerShell, Git

- Maintained and updated the Microsoft Graph SDK for PowerShell while improving the DevOps experience for Microsoft PS users by 45%
- Introduced new optimization features while reducing bugs and addressing customer issues on Azure Global Support API Gateway Service by 75%
- Spearheaded the deprecation of MS Online and Azure AD PowerShell while migrating existing customers onto MS Graph with a 90% success rate.
- Enhanced Microsoft Graph extensibility SME telemetry by implementing advanced monitoring tools and techniques, improving data accuracy and insight generation.
- Implemented enhancements to Microsoft Graph logs UX/UI and backend, improving user navigation and backend data processing efficiency by 30%.

International Business Machines Corporation

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.
- Researched quantum key distribution protocols and their security implications while developing a quantum cryptographic systems prototype.
- 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.

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-Authoring 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%