Taofeek Obafemi-Babatunde

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CORE SKILLS

Skill Group 1: C#, Qiskit, QASM, Python, JavaScript, Java, MySQL, C
Skill Group 2: Jupyter, VSCode, Kivy, NumPy, Pandas, OpenCV, Expo
Skill Group 3: Google Cloud Platform, Amazon Web Services, Docker

EDUCATION

Morgan State University Baltimore, MD
BSc + Electrical and Computer Engineering May-2020
MSc + Computer Science: Advanced Computing May-2021
MEng + Electrical and Computer Engineering May-2022

WORK EXPERIENCE

Microsoft Corporation Redmond, WA
Software Engineering Intern, Identity & Network Access Team June, 2021 – Present

International Business Machines Corporation Baltimore, MD
Graduate Quantum Researcher December, 2020 – Present

- Contributed to various qiskit projects hosted on github such as the Quantum Dice, Quantum Image Processing, and Qonway's Game of Life
- Contributing to Retworkx: a general purpose graph library for python3 written in Rust to take advantage of the performance and safety that Rust provides.
- Exploring and improving the depths of Shor's Algorithm for factorization of complex demi-prime numbers.

Data Engineering and Predictive Analytics Laboratory Baltimore, MD
DevOps Engineer May, 2020 – Present

- Developed a Python-based application for automated segmentation of data pulled from an API in preparation for a Machine Learning model.
- Maintaining a cloud database and CI/CD pipeline that implements 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.

Morgan State University, John Hopkins, US ARMY Research Laboratory Baltimore, MD
Research Assistant February, 2018 – May, 2020

- Assessment and quantification of ballistic damage of a single layer woven fabric composite laminate.
- Wrote a MATLAB algorithm that accurately identifies and quantifies damage on composite materials with a 95% accuracy.
- Developed a cross-platform mobile application which employs aforementioned MATLAB algorithm to increase functionality by 60%.
- Published a paper and presented research findings to major army stakeholders.

PROJECT WORK

Shor's Algorithm *Introduction to Quantum Computing* October, 2020 – January, 2021

- Improved previous versions of Shor's algorithm to accommodate factoring three digit demi-primes with a 65% accuracy.
- Awarded a grant to further improve Shor's algorithm by the IBM graduate research program.

College Fox *Advanced Software Engineering* October, 2020 – December, 2020

- Created a social media app to generate interaction between college students during virtual learning sessions.

Where Am I? *Major League Hacking* Summer, 2020

- A project inspired by "Sherlock" which utilizes data available on the internet to determine the connections between multiple social media accounts.

HOBBIES

Skating, Biking, Hiking, Photography, Digital Painting, Visiting Art Exhibitions