

Taofeek Obafemi-Babatunde

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CORE SKILLS

Skill Group 1: C#, Qiskit, QASM, Python, JavaScript, Java, MySQL, C, PowerShell

Skill Group 2: Jupyter, VSCode, Kivy, NumPy, Pandas, OpenCV, Expo

Skill Group 3: Google Cloud Platform, Amazon Web Services, Docker, Microsoft Azure

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

December, 2021

WORK EXPERIENCE

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 detailing significant advances regarding 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.

Microsoft Corporation

Redmond, WA

Software Engineering Intern, Cloud & AI

June, 2021 – August, 2021

- Adding a new feature to the Microsoft Graph SDK for PowerShell
- Improving the DevOps experience of Microsoft Graph for PowerShell users
- Designing intern merch for the summer 2021 interns.

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 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.

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