Shaquille Pearson

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EDUCATION

University of Waterloo

Waterloo, ON

Master of Mathematics in Computer Science

Jan. 2023 - Dec. 2024

St. Georges University

St.George's, Grenada

Bachelor of Science in Information Technology

Jan. 2018 - Dec. 2021

EXPERIENCE

The Software REBELs

Waterloo, ON

Jan 2023 - Present

Graduate Research Assistant

- Data Pipeline: Designed and built a data filtration pipeline that processed over 1.27 million open-source projects.
- Build Reproduction: Led efforts to create reproducible build environments for 982 builds in the NPM ecosystem using Docker, Python, and GitHub Actions and YML files.
- Algorithm Optimization: Identified and categorized 156 new ghost commit patterns within the Debian ecosystem. Designed mitigation strategies to improve the SSZ algorithm's accuracy by 14%.

University of Waterloo

Waterloo, ON

Instructional Apprentice / Teaching Assistant in CS

Jan 2023 - Present

- Technical Assistance: Assisted over 30+ students with coding assignments, particularly debugging Python code and resolving errors.
- Communication and Collaboration: Communicated effectively with students and instructors via email, forums, and in-person meetings, addressing inquiries and providing timely feedback.
- **Teamwork and Leadership**: Collaborated closely with course instructors and fellow instructional apprentices to lead tutorials, proctor exams, and coordinate grading.

Department of Public Information

Georgetown, Guyana

Junior ICT Officer

Aug 2022 - January 2023

- Script Automation: Developed and implemented automation scripts using Python and JavaScript, reducing manual website testing and content updates by 23% with WordPress and Lighthouse
- Networking Troublshooting: Diagnosed and resolved 50+ connectivity issues using Wireshark, which reduced local network downtime by 8% and improved overall network reliability.
- End-User Support: Provided technical support to 100+ staff members for software and hardware issues on first contact. Utilized help desk ticketing systems and remote assistance tools to deliver timely solutions.

Courses & Projects

- Software Analytics for Release Pipelines: Project -Exploring Dependency Related Breakages In The NPM Ecosystem
- Introduction To Machine Learning: Project -Predicting Build Breakage With Machine Learning
- Consensus Protocols & Blockchains: Project -Code Review Practises On Ethereum Smart Contracts
- Data Sources for Emerging Technologies: Project -Exploring The Prevalence of Social Biases In State Of The Art Large Language Models
- Software Engineering For Big Data & AI: In progress
- Designing Value-Driven Tech: In progress
- Beyond Relational DBMSs: In progress

PROGRAMMING SKILLS

- Languages: Python, JavaScript, TypeScript, C++, Java, SQL, Cypher, Latex
- Technologies: Docker, Git, GitHub GraphQL, MySQL, KuzuDB, Pandas
- Frameworks: React, React Native, jQuery, ExpressJS, PyTorch