

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
Graduate Research Assistant *Jan 2023 - Present*
 - **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. Analyzed their impact and designed mitigation strategies to improve the **SSZ** algorithm accuracy by **14%**.
- **University of Waterloo** Waterloo, ON
Instructional Apprentice in CS *Jan 2024 - April 2024*
 - **Technical Assistance:** Assisted students with coding assignments, **debugging code**, and troubleshooting technical issues in **Python**
 - **Communication and Collaboration:** Communicated effectively with students and instructors via email, forums, and in-person meetings, addressing inquiries and providing timely feedback. Collaborated with course staff to plan and execute **tutorials**, labs, and exams.
 - **Teamwork and Leadership:** Collaborated closely with course instructors and fellow instructional apprentices to develop course materials, lead tutorials, and coordinate grading. Took on leadership responsibilities, including **supervising** labs and proctoring exams.
- **Department of Public Information** Georgetown, Guyana
Junior ICT Officer *Aug 2022 - January 2023*
 - **Script Development:** Developed automation scripts using **Python** and **JavaScript** to streamline repetitive tasks such as **website testing**, **web scraping**, and content updates
 - **Networking:** Conducted **network** monitoring and troubleshooting using tools such as **Wireshark** to diagnose and resolve connectivity issues promptly to minimize downtime and disruptions.
 - **Troubleshooting:** Identified and resolved **software** and **hardware** issues for end-users, providing timely technical support and **troubleshooting** assistance via help desk tickets and remote assistance tools.

COURSES

- **Software Analytics for Release Pipelines:**
- **Introduction to Machine Learning:**
- **Consensus Protocols & Blockchains:**
- **Data Sources for Emerging Technologies:**
- **Software Engineering for Big Data & AI:**
- **Designing Value-Driven Tech:**
- **Beyond Relational DBMSs:**

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