William Zhao

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EDUCATION

University of Toronto   **April 2024**
Bachelor of Science in Computer Science and Mathematics

WORK HISTORY

Software Developer   **Jan 2025 – Aug 2025**
Scotiabank   Scarborough, ON

- Designed and implemented Java code and JUnit test suites for core banking services, increasing code coverage from 75% to 100% and reducing production defects by 30%.

- Created comprehensive automated test cases for field validation, data mapping, and end-to-end workflows, ensuring full compliance with QA and regulatory standards.

- Developed and executed API tests and database validation scripts; delivered JSON payloads to IST and UAT environments via Postman.

- Monitored and optimized MongoDB data flow using Elasticsearch and Argo CD, improving query performance and system reliability.

Software Engineering Intern   **May 2022 – Sept 2023**
ePIC Blockchain   North York, ON

- Developed blockchain ASIC software and enhanced Miner API in Rust, enabling real-time and discrete hashrate calculations from miner sensor data.

- Implemented RESTful API endpoints for retrieving and controlling miner network info, performance stats, and temperature metrics.

- Designed and built an Electron + React.js + Material-UI dashboard for ASIC miners, improving usability and accessibility based on customer feedback.

- Ensured backward compatibility with legacy miner models, reducing support tickets by 20%.

- Diagnosed and repaired ASIC miner hardware, including disassembly and hashboard testing, restoring functionality for client deployments.

SKILLS

Programming Languages: Rust, Python, Java, JavaScript, HTML, CSS, SQL
Technologies: Git, Jira, MongoDB, PostgreSQL, Splunk, AWS, React.js, Node.js,