

William Zhao

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EDUCATION

University of Toronto

Apr 2024

Honours Bachelor of Science in Computer Science & Mathematics

PROFESSIONAL EXPERIENCE

Software Developer

Jan 2025 – Sep 2025

Scotiabank

Scarborough, ON

- Designed and implemented **Java** code and **JUnit** test suites for core banking services, increasing code coverage to 100% and reducing production defects.
- Created comprehensive automated test cases in **Python** for field validation, data mapping, and end-to-end workflows, ensuring full compliance with QA and regulatory standards.
- Leveraged **Bitbucket** and **Git** to manage version control of code, supporting **CI/CD pipelines** and cloud deployment processes.
- Monitored and optimized **MongoDB** data flow using **Elasticsearch** and **Argo CD**, improving query performance and system reliability.
- Utilized **Jira** for sprint planning, issue tracking and agile workflow management.

Software Engineer

May 2022 – Sep 2023

ePIC Blockchain

North York, ON

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

PROJECTS

Symposium

Mar 2024

- Developed an educational social networking application which supported multimedia user generated content including embedded videos and images.
- Designed and built front-end user interface using **React** connected to a backend using **Django** and **Python**.
- Stored user generated content in backend databases implemented with **PostgreSQL** and connected with API calls using **FastAPI**.
- Utilized **Docker** containers for **microservices** architecture to handle different functionalities of the application such as managing logins, and hosting databases for user accounts and posts
- Maintained version control and deployment of software using **GitLab**.

SKILLS

Programming Languages: Rust, Python, Javascript, HTML/CSS, Java, C, C++, SQL

Technologies: Git, Jira, MongoDB, PostgreSQL, Django, Docker, React, Node, Electron