# William Zhao

williamz7388@gmail.com | (647) 551 4258 | Toronto, Canada | LinkedIn: william-zhao2

## EDUCATION

**University of Toronto**                                                                          **April 2024**
Honours Bachelor of Science in Computer Science & Mathematics

## WORK HISTORY

**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 Engineering Intern**                                                    **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**

- 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