

# William Zhao

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## WORK HISTORY

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### Software Engineer Intern ePIC Blockchain

May 2022 – Sept 2023  
North York, ON

- Developed Blockchain ASIC software, created and improved Miner API using Rust.
  - Added discrete and real-time hashrate calculations using data collected from ASIC miners.
  - Implemented RESTful API features that allows pushing and pulling data from various sensors on the miner, such as network info, hashrate, and temperatures.
- Tested and developed an automatic testing suite for ASIC miner software using Rust.
  - Created a new project, designed, and implemented a CLI to run the tests.
  - Developed and refined tests in cooperation with the API team, by updating and creating new tests whenever the API interface was modified.
- Designed and built front-end UI for ASIC miners using Electron, React.js and MaterialUI.
  - Modified elements on webdash and dashboard using customer feedback to increase usability and accessibility.
  - Ensured webdash supports backwards compatibility with older ASIC miner models.
- Disassembled ASIC miners for testing and debugging by diagnosing dead hashboards and reassembling working machines to be delivered to customers.

## EDUCATION

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### University of Toronto

Sept 2018 - April 2024

Bachelor of Science in Computer Science and Mathematics

## PROJECTS

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- **Symposium**
  - Worked with a 6 student team to develop a social networking application using React and the Material UI library for front-end design and PostgreSQL for backend databases to store account information. The program followed a microservices architecture where different functions of the program such as user logins or post information were stored using distributed databases.
- **Space Hacker**
  - Developed a disk space analyzer software using Python that maps a user's designated directory and creates an interactive treemap that displays the sizes of the folders and files

## SKILLS

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**Programming Languages:** Rust, Python, Java, C, C++, JavaScript, HTML, CSS, SQL

**Technologies:** Git, Docker, AWS, Azure, GitHub Copilot, React.js, Node.js,