William Zhao

williamz7388@gmail.com | (647) 551 4258 | Toronto, Canada

WORK HISTORY

Software Engineer Intern **May 2022 – Sept 2023**
ePIC Blockchain 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.
  - Developed tests for multiple models of miners, ensuring test parameters are modified to be compatible with each ASIC model.

- 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

University of Toronto **Sept 2018 - April, 2024**
Honours Bachelor of Science in Computer Science and Mathematics

John Fraser Secondary School **Sept 2014 - June 2018**

PROJECTS

- **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

WEBSITE

architecture1.github.io