

William Zhao

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WORK HISTORY

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

University of Toronto

April 2024

Bachelor of Science in Computer Science and Mathematics

PROJECTS

- **Symposium**
 - Worked with a 6 student team to develop a social networking application using **React** 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

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

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