Brook Mao

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# Skills

## Technical

* Proficient in Python, JavaScript/TypeScript, Java, C/C++, and PHP, developing apps such as a \_\_\_\_\_\_\_\_\_\_.
* Familiar with basic system design from engineering a multiplayer chess clock app with a 3-tier architecture.
* Clear documentation skills demonstrated through open-source contributions to the VSCode user documentation.
* Meticulous in quality assurance, writing doc tests and unit tests for personal projects and school assignments.

## Interpersonal

* Experienced working in Agile and Scrum teams, leading a group of 6 as Scrum Master using Jira to build an artifact database Android app catering to client requirements for a final course project.
* Open communicator, facilitating standup meetings both in software teams and with colleagues as a camp counselor.
* Collaborates effectively and quickly learns new skills to fulfill roles in hackathon projects and meet tight deadlines.

# Education

## University of Toronto, Honors Bachelor of Science in Computer Science (Co-op) Expected 2027

Software Engineering Stream | Relevant Courses: Software Design, Computer Organization

## Additional Certifications

* JavaScript Algorithms and Data Structures, freeCodeCamp.org
* Data Analysis with Python, freeCodeCamp.org
* Web Applications for Everybody Specialization, University of Michigan (Coursera)

# Experience

## [MultiClock](https://github.com/BrookMaoDev/MultiClock) - Multiplayer Chess Clock | *MERN, Tailwind, NGINX, Docker, Linux, AWS, GitHub CI/CD* May 2024

* Developed a full stack web app using React for the frontend, Node and Express for the backend, and MongoDB for the database, resulting in an easy-to-use tool that allows multiplayer board game players to use a timer.
* Containerized each layer of the application with Docker, allowing for individual scaling of each component.
* Deployed the application on AWS using a Linux VM and configured NGINX as a reverse proxy, achieving HTTPS encryption, and ensuring secure, reliable access for users.

## Pantheros Labs | Junior Data Scientist 20XX – 20XX

* Cleaned and preprocessed data
* Conducted statistical tests for decision support
* Developed machine learning models for prediction
* Collaborated on A/B tests, increased click-through