

Yi Hong Liu

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Technical skills

Languages: C/C++, Java, Golang, Python, Ruby

Tools: Selenium, Pexpect, Git, Bash, SQL, Autodesk Eagle

Work Experience

University of Waterloo - WEEF TA (Waterloo)

Aug 2019 - Dec 2019

- Leveraged **Python** scripts and **Pexpect** to automated grading of programming projects
- Designed state machines to accurately parse source files and student outputs
- Developed custom Android app in **Kotlin** to take attendance, enabling accurate attendance of 150 students in 15 minutes
- Received praise from students and professors on tutoring of difficult concepts in calculus, linear algebra, physics, and C++

Axsiom Group - Solution Developer (Toronto)

Jan 2019 - April 2019

- Spearheaded development and maintenance of 3 automated test suites allowing for timely regression testing
- Significantly **improved reliability** of Ruby Cucumber code base, reducing false test failures from 900 to 150 in 3 months
- Improved robustness of **Java Appium** code base by increasing consistency of 13 test cases
- Assisted in the development of **ASP .NET** web applications by investigating bugs to free developer time

Projects

Personal Web App (work in progress, <https://yihong.ca>)

August 2019 - Present

- Developed and deployed SSL certified **Golang** web app to host personal projects and services
- Utilized **MySQL** for storage of data required by applications
- Designed low memory frontend to reduce data transfer costs

University of Waterloo Formula Motorsports

April 2019 - Present

- Redesigned power distribution unit of formula car, correcting previous faults
- Redrew circuit schematic and PCB layout in Autodesk Eagle
- Debugged and fixed electrical issues during testing of vehicle, allowing for timely collection of data

Education

Candidate for bachelors of applied science - honours computer engineering, cooperative program, expected graduation 2023