

# Yi Hong Liu

## Technical skills

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

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

## Work Experience

### University of Waterloo - WEEF TA (Waterloo)

Aug 2019 - Dec 2019

- Leveraged **Python** scripts and **Pexpect** to automate grading of programming projects
- Developed custom Android app in **Kotlin** to take attendance, enabling accurate attendance of 150 students in 15 minutes
- Provided canonical solutions for C++ quizzes, labs, and projects
- 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

### Snippet (work in progress, <https://yihong.ca/services/snippet>)

August 2019 - Present

- Developed and deployed SSL certified **Golang** web app to host personal projects and services
- Leveraged Golang **HTML templating** to create Snippet, a resume templating service
- 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
- Designed mounts for electrical system components in Solidworks

## Education

Candidate for Bachelors of Applied Science - Computer Eng. Co-op 2023