

# RICK LIU

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## SKILLS

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Languages:

Python, Java, C, C++, HTML, CSS, JavaScript, SQL

Technologies:

React, Node.js, MySQL, Selenium, Git

## PROJECTS

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### AnimeList Duel

HTML, CSS, React, Node.js, MySQL

*Website that Compares Stats of Anime Watchers*

*Nov 2020 – Jan 2021*

- Designed a modular and responsive frontend website using HTML, CSS and React that displays side-by-side statistics for two requested users
- Developed a Node.js backend that scrapes the site MyAnimeList for data on requested users
- Connected a MySQL database that stores scraped data to increase the speed of future queries

### CamWow

Python, Selenium

*Gesture-Based Computer Automation*

*Oct 2020 – Nov 2020*

- Worked in a team of five to develop a Python OpenCV application that automatically executes user-specified tasks based on hand gestures detected by a Raspberry Pi
- Used Git version control to develop and integrate code in two sub-teams
- Implemented client-server communications between the Pi and one or more computers
- Added the ability to customize gestures with tasks and save them in persistent files
- Created a GUI using Tkinter to streamline customizing gestures and avoid manually editing files
- Assisted in automating website navigation and logins using Selenium

### SoluteTaire

Java

*Java-Based Solitaire Clone*

*Nov 2019 – Jan 2020*

- Used Java to develop a clone of the game Solitaire with object-oriented design
- Utilized the libGDX game framework to implement the game loop and graphics

## EDUCATION

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### University of Waterloo

Waterloo, Ontario

*Candidate for BAsC in Software Engineering*

*Sep 2020 – April 2025*

- GPA: 4.0, Cumulative GPA: 96.0%