

RICK LIU

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SKILLS

Languages:

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

Technologies:

React, Node.js, MySQL, Selenium, libGDX, Git

PROJECTS

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 and compares statistics side-by-side 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 as part of one of two sub-teams
- Implemented client-server socket communication 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 the customization and avoid manually editing files
- Assisted in automating website navigation and login using Selenium

SoluteTaire

Java, libGDX

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

University of Waterloo

Waterloo, Ontario

Candidate for BAsC in Software Engineering

Sep 2020 – Apr 2025

- GPA: 4.0, Cumulative GPA: 96.0%