DANIEL WEI

UWaterloo Software Engineering Student

Software Engineering student at the University of Waterloo who is passionate about software development. Experienced with object-oriented programming, as well as designing, testing, and debugging software, problem-solving, and working in teams. Able to quickly learn and work with new technologies and programming languages.

EXPERIENCE

Lead Programmer
Trubotics

📅 Sept 2019 – Jun 2020　　　📍 Markham, ON

- Taught members of club how to program their robots using ROBOTC and C++
- Wrote programs for autonomous and driver control of robots
- Improved previous robot designs and programs that led to qualifying for VRC Provincial Championships
- Secured $4000 in funding for the 2019-2020 season
- Worked extensively in a design team of 7 people

Treasurer
Trubotics

📅 Sept 2018 – Aug 2019　　　📍 Markham, ON

- Secured $4000 in funding for the 2018-2019 season
- Oversaw and tracked the budget for all 5 competitions teams through the season
- Worked extensively in a design team of 10 people

PROJECTS

Stick Hero Robot
Stick Hero 6

📅 Sept 2020 - Dec 2020

- A Raspberry Pi driven robot that plays the mobile game Stick Hero
- Processes images taken by an external camera to successfully play the game
- Scripts are written in Python using NumPy, Pillow, GPIOZero, and PiCamera libraries

Game Development
3D Parkour/FPS Game

📅 Jul 2020 - present

- 3D Parkour/FPS Hybrid game built using the Unity Engine
- Includes a custom-built movement controller that allows for more advanced movement options, such as wall-running and double-jumping
- All scripts are written in C#

Web Devlopment
Portfolio Website

📅 Jul 2020 - present

- Personal portfolio website built from scratch using HTML, CSS, and JS, primarily with the Bootstrap and jQuery libraries
- Has a responsive design that ensures the website is well-formatted across many devices

Discord Bot
Cards Bot

📅 May 2020 - Sept 2020

- A Discord Bot written in Python using the discord.py library that uses a MySQL database for user data storage
- Allows users in a Discord server to play card games (currently supports Texas Hold 'Em and President)
- Driven by object-oriented programming (each card game is its own separate object)

PERSONAL INFO

- @ danwei002@gmail.com
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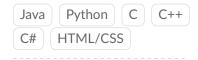- 🌐 danwei002.github.io
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AWARDS

University of Waterloo, President's Scholarship of Distinction

A scholarship issued by the University of Waterloo to students whose admission average is 95% or greater.

SKILLS

Programming Languages

Java　Python　C　C++
C#　HTML/CSS

Soft Skills

Leadership　Communication
Time Management
Problem Solving　Teamwork

LANGUAGES

English　● ● ● ● ●

Mandarin　● ● ● ○ ○

EDUCATION

Candidate for Bachelor of Software Engineering
University of Waterloo

📅 Sept 2020 – present