Alex Li

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Skills

Education

2020 - 2025

Bachelor of Computer Science - University of Waterloo, Waterloo, ON (3.84/4.0 GPA | 88.4%)

Projects

Personal Website

https://lliale.github.io/PersonalWebsite/

- Created an original webpage using HTML, CSS, and JavaScript to provide a clear visual representation of my coding experience and creativity.
- Implemented an interactive gallery that strongly demonstrated my interest in STEM.
- Accessed the **Firebase API** to sync data to a **noSQL** real time database, tracking the amount of time users spend per section and displaying related data using **Google Charts**.

Blacklack-Trainer

https://github.com/1liale/BlackJack-Trainer

- Created an educational program in Java to train users at the card game BlackJack using card-counting and basic strategies.
- Applied **Object Oriented Programming** to organize game elements into a structured hierarchy and implemented **FileIO** to read the basic strategy chart stored in a text file.

EvolutionGame AI

https://github.com/1liale/EvolutionGame

- Created a 2D **Python** game using the **PyGame** module and modelled a **neural network** using the **Numpy** library to experiment with game design in python.
- Explored **ML** using the **Genetic Algorithm** to modify the weights and biases of the network.

RollingBall Game

https://github.com/1liale/RollingBall

- Created a clean, engaging windows desktop game where users control a ball rolling down a hill to collect coins and avoid obstacles along the path.
- Developed the game using the Unity Game Engine with scripts coded in C# and custom-made game assets, including satisfying ball collision animations made with the help of Blender.

Experience

August 2018 - March 2020

YMCA Lifeguard and Instructor, Oakville, ON

- Demonstrated positive leadership, responsibility and decision making skills when creating weekly lesson plans to instruct patrons at the YMCA.
- Communicated effectively with patrons and staff, with emphasis on teamwork and initiative, to deliver a cohesive and safe work environment.