

Alex Li

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1208 Bonnybank CT, Oakville, ON

Education

2020 - 2025

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

Skills

Languages: Java (2 years) / Python (8 months) / C#, C++ (6 months) / HTML, CSS, JS (3 months)

Technologies: Git / ROS / CAD / 3D Printing / Bash / Linux / Vim / Unity Game Engine / XML / JSON

Projects

Personal Website

<https://1liale.github.io/PersonalWebsite/>

- Created an original **HTML** webpage with **CSS** styling and embedded **JavaScript**.
- Elegant formatting with clear visual representation of my coding experience and creativity.
- Implemented an interactive gallery that strongly demonstrated my interest in STEM.

BlackJack-Trainer

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

- Created a responsive **Java** program that trains users to become better 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 txt file.

EvolutionGame AI

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

- Created a python game using the **pygame** module.
- Modelled a neural network using the **numpy** library.
- 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 collecting coins while avoiding 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 and influence for children. Showcased responsibility and decision making skills when creating weekly lesson plans.
- Communicated effectively with patrons and staff.