

# Marvin Li

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[github](#) | [linkedin](#) | [portfolio](#)

## EDUCATION

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### BASc Software Engineering - Year 2

University of Ottawa

Relevant Coursework -

- CEG 2136 - Computer Architecture I - 100%
- CSI 2110 - Data Structures and Algorithms - 90%
- SEG 2105 - Introduction to Software Engineering - 85%
- ITI 1121 - Introduction to Computing II - 100%

**CURRENTLY ENROLLED**

CGPA - 9.0 / 10.0

GPA - 3.7 / 4.0

## SKILLS

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**Programming Languages** Python | Java | C++ | C | C# | JavaScript

**Technologies** React.js | Flask | Next.js | Tailwind | Android | Firebase | Vercel

## WORK

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### IHeartBoba

Barista

**April 2022 - September 2022**

Mississauga, ON

- Handled taking orders and making a large variety of drinks in a high paced environment.

## NOTABLE PROJECTS

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### Tetris AI - Personal Project

<https://github.com/iilou/tetr.ai/releases/tag/v1.0.0>

C++ | SDL2 | Machine Learning

- Tetris AI is an application that lets the user automatically train a Tetris bot that can play competitive Tetris that outperforms 90% of active Tetris players at 4 pieces/s after 300 generations of training.
- Used vanilla C++ to design the AI Model which uses a heuristic approach to judge the most optimal destination of a Tetris piece given a list of the bot's future Tetris pieces and a specific board state.
- Used the C library SDL2 to make a UI so that the user may locally train an AI model using 3 unique reinforcement techniques, play against either AI bots at 5 different speeds, and change key settings such as modifying the AI processing depth up to 4 simultaneous pieces.

### Personal Portfolio - Personal Project

<https://www.limarvin.com>

Next.js | Vercel | Tailwind | React.js | Javascript

- Used the Next framework to create a React website to serve as a personal portfolio.
- Designed and implemented an elegant and interactive UX design using Figma and Tailwind CSS.

### Android Renting App - Team Project

<https://github.com/SEG-2105/project-group-8>

Java | Android Studio

- Leader for a 4 person team that built an Android application for renting clients, landlords, and property managers to interact with.
- Created a simple and intuitive UI using Android Studio and Java for a complex user-navigation system that accounts for the user type and their associated permissions.

### Data Structures and Algorithms Visualizer - Personal Project

[https://iilou.github.io/dsa\\_vis](https://iilou.github.io/dsa_vis)

Javascript | React.js

- React website that helps users visualize common data structures and algorithms.
- Used React to create a system where users could create custom graphs and trees with custom weights and values with incredible ease and speed.
- Currently, 4 unique graph theory algorithms can be applied to the custom graphs. Every step of the algorithm is clearly visualized, represented by differently styled nodes and edges, and easily traversable.

## LINKS

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**Portfolio Website** [www.limarvin.com](http://www.limarvin.com)

**Github** <https://github.com/iilou>

**LinkedIn** <https://www.linkedin.com/in/marvin-li-08953b298>

**Dmoj (Competitive Coding)** <https://dmoj.ca/user/somebOI1328/solved>