

# Andy Le

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## Skills

**Language:** Python, JavaScript, HTML, CSS, Java, Scheme, C/C++, C#

**Libraries / Frameworks:** Node, jQuery, Three, React, Angular, Django

**Tools:** Arduino, Virtual Box, Putty, WinSCP, MS Office, Maple T.A., Git

## Projects

### Blokus Game

- Web app based off the board game Blokus is an abstract strategy board game
- Developed with object oriented and imperative programming using Three.js, JavaScript, HTML, and CSS

### A\* Pathfinder

- Web app that allows the user to create a maze and generate the shortest distance between a starting point and an end point using the A\* pathfinding algorithm
- Developed imperative programming using JavaScript, HTML, and CSS

### Sudoku Solver

- Web app based off the logic-based game sudoku, with a built-in board solver
- Developed with imperative programming with backtracking using Python

### Electromagnetic Robot

- Arduino based robot that picks up metal bits using electric currents, motors and sensors
- Developed using Python, C++, PyGame, and Arduino and controlled using an android app

## Experience

### Summer Camp Director (Hamilton Chinese Alliance Church)

June 2017 - Sept 2018

- Organized and effectively ran a camp for over 100 children, resulting in an enjoyable experience for everyone involved
- Collaborated in a team with other directors to create a structured schedule incorporating daily themes for different stations and teams to follow for week

### Busboy (Mandarin)

June 2016 - May 2017

- Work and communicate with restaurant staff to create a positive dining experience for guests
- Ensure availability of clean dishes, silverware, napkins and other dining material

### Mohawk College

Expected 2022

Currently enrolled in Computer Systems Technology - Software Development

## Education

### Relevant Courses

#### Programming in Java

- Designed object-oriented apps that make effective use of encapsulation, inheritance, polymorphism, interfaces, association, and arrays of objects

- HTML & CSS
- Computer Training & Technical Writing
- Intro To Systems Analysis And Design
- Programming Fundamentals
- Intro To Networking