

# King Lai

Computer Science Student

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## Education

### Honours Bachelor of Science, Computer Science

University of Toronto Scarborough

Fall 2019 to Summer 2020 Dean's List - 3.78/4.00 CGPA  
2019 - present

## Experiences

### Physics Club Treasurer

AY Jackson Secondary School

09/2018 - 06/2019

- Managed the Physics Club finances including total expenses, revenue, profit, and budget by communicating with club members about needs and wants.
- Determined how to effectively spend club budget for large scale events given a constraint on time and budget.

### Table Tennis Team Captain

AY Jackson Secondary School

04/2017 - 05/2018

- Brought team performance to gold standards by coaching team members and bringing a positive atmosphere.
- Communicated with the coach about team strategies, tactics, and performance.
- Encouraged and lead the team to persevere through challenging and critical matches.

### Volunteer at Recreation Center

Vantage Recreation Center

07/2018 - 08/2018

- Managed a private condominium recreation center by signing residents into a logbook, guiding residents around the facility, cleaning exercise equipment, and booking desired activities for residents.
- Maintained the swimming pool by checking the clarity of water and monitoring the acidity of water at regularly timed intervals.

## Awards and Achievements

Toronto Team Table Tennis City Champion

2017, 2018, 2019

Junior and Senior Jazz Ensemble (*Soloist*)

09/2017 - 05/2019

Royal Conservatory of Music Gr.8 Piano Certification

*First Class Honours with Distinction*

2015

## Tools & Technologies

Java

Python

Shell

C

MonogoDB

Neo4j DB

Javascript

HTML & CSS

Adobe Photoshop

## Projects

### Puzzle - Minecraft Server Manager

05/2020 - 10/2020

- A server manager for the game, Minecraft. Its purpose is to start, stop, backup, restore and maintain the server.
- It performs the backups by copying and pushing the Minecraft world files into a Subversion repository hosted on a Raspberry Pi 4.
- Written in Bash on the Linux Terminal using Vim, featuring a user-friendly CLI menu for easy server management.
- Includes a web version for remote server control. Made using React, it implements RESTful API endpoints with Spring Boot in Java, and is hosted with Heroku and Google Firebase.

### Minesweeper Game and Engine

10/2020 - present

- Developed an engine to solve the classic game, Minesweeper, by recognizing patterns and marking guaranteed mine locations.
- Created test cases and a board rollback GUI to trace code, view algorithm inaccuracies, and debug the project.
- Written in Python and utilizes the Pygame library.
- Designed and created the graphics using Adobe Photoshop.

### Fortnite Analytics (fortniteanalytics.web.app)

12/2020

- Created a web app to display Fortnite statistics of a given player with React and hosted it using Google Firebase.
- Coded a simple Spring Boot Microservice in Java to implement RESTful API endpoints which send Fortnite player data in a JSON body and deployed it with Heroku.
- Designed a clean and user-friendly layout to easily search and view player information.