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
2019 - present

Experiences

Website Development - MediaTube Corp.
05/2019 - present

- Designed and created a website to spread information about a company's cause and to display important documents.
- Implemented a minimalistic and mobile-friendly design.
- Used Core-FTP and Visual Studio Code to host, update, and maintain the website.

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 money 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.

Interests

Artificial Intelligence	**Machine Learning**
Computer Components	**Video Games**
PC Building	**New Technology**

Skills Profile

Goal-oriented and self-driven second year student passionate about developing software for bettering the community. Skilled in applying software development patterns including Object Oriented Programming, Singleton Design Pattern, Dependency Injection and Decorator Design Pattern. Competent in implmenting RESTful API endpoints and web developing using React.

Key Competencies

Java Python C

Shell Scripting HTML CSS

Adobe Photoshop Adobe Flash

Projects

Puzzle - Minecraft Server Manager
05/2020 - present

- A server administrator for the popular game, Minecraft.
- Uses a Subversion repository hosted on a Raspberry Pi 4 to backup and store world files.
- Uses the Linux Cron Daemon to automatically run the code which performs the daily and weekly backups.
- Written in Bash on the Linux Terminal using Vim, implementing a user-friendly design featuring ASCII graphics and DOS-like UI.

RESTful API Endpoint Implementation
09/2020 - 10/2020

- Implemented RESTful API endpoints using com.sun.net.http server package in Java to send HTTP server requests to a Neo4j database.
- Constructed test cases to detect server and/or client side errors when sending and receiving HTTP server requests.
- Implemented corresponding HTTP response codes which follow the RESTful API HTTP status codes.

Dotted - Puzzle Game
10/2017 - 01/2018

- Developed a fun puzzle game in Java, which implemented recursive and memory saving techniques.
- Constructed test cases to detect errors and traced memory models to analyze efficiency of algorithms and debug code.
- Designed and created the graphics in the game using Adobe Photoshop.