King Lai

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Education

University of Toronto Scarborough   2019 – present
Honours Bachelor of Science, Computer Science, Co-op
Fall 2019 to Summer 2020 Dean's List – 3.78/4.00 CGPA

Tools/Technologies

Languages: Java, Python, C, Shell, Bash, JavaScript, HTML, CSS
Other: Neo4j, MongoDB, React, Git, SVN, Jira, Agile Methodology, Linux, Adobe Photoshop

Personal Projects

Puzzle – Minecraft Server Administrator   05/2020 – present
- Developed software to run a Minecraft server which can start, stop, restore, backup, and manage multiple worlds.
- Automatically executes daily backups, as well as long term backups once a week, where the world files are stored locally and on a remote SVN repository.
- The software includes a command line version written in Bash for the Linux terminal, and a web option written with React, where the backend implements the RESTful API using Spring Boot in Java. The RESTful API runs the server scripts remotely, and is deployed using Heroku, and the web app is hosted using Google Firebase.

Fortnite Analytics Web Application   12/2020 – present
- Developed a web app with React to display the Fortnite statistics of a given player.
- The backend implements RESTful API endpoints with Spring Boot Microservices in Java, which retrieves Fortnite player data from fortniteapi.io and organizes it appropriately in a JSON body format.
- The microservice is deployed using Heroku, and the web app is hosted with Google Firebase.

Academic Projects

SportCred Web Application   09/2020 – 12/2020
- Developed a web application with a team following the Agile methodology to track the analytical skills of users in basketball through online quizzes, debates, game predications, and a public discussion forum.
- Designed with an MVC software design pattern, it uses React on the frontend, and Neo4j DB on the backend.
- Implemented various database queries on the backend and created sections of the website with React, making HTTP requests to RESTful API endpoints using Axios.

Experience

AY Jackson Secondary School – Physics Club Treasurer   09/2018 – 06/2019
- Managed the Physics Club's finances, including total expenses, revenue, profit, and budget through communicating with club members about needs and wants.
- Determined how to effectively spend club money for large scale events given constraint on time and budget.

AY Jackson Secondary School – Table Tennis Team Captain   04/2017 – 05/2019
- Brought team performance to gold standards by coaching team members 3 times a week after school for 1.5hrs.
- Communicated with the head coach about team strategies, tactics, and performance.

Awards and Achievements

Toronto Team Table Tennis City Champion   2017, 2018, and 2019
AY Jackson Secondary School – Jr. and Sr. Jazz Ensemble Soloist   2017 - 2019
Royal Conservatory of Music Gr.8 Piano Certification, *First Class Honours w/ Distinction*   2015