

# King Lai

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## EDUCATION

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### University of Toronto - Scarborough

*Honours Bachelor of Science, Computer Science, Co-op*

Sep 2019 - June 2024

*High Distinction - 3.75/4.00 cGPA*

## EXPERIENCE

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### Software Developer Intern

May 2022 - Dec 2022

*Dayforce Inc. (formerly Ceridian)*

- Developed frontend web software using React in TypeScript and developed backend software in C# working with REST API. Developed new features according to user stories and the provided designs.
- Triaged test automation failures by investigating root cause of failures and ensuring a solution is made to prevent future test runs from having obscured test results which don't reflect the software.
- Wrote confluence documentation regarding how to prevent flakiness when running Cypress tests and the appropriate guidelines and techniques to writing stable Cypress integration tests.
- Wrote unit, end-to-end, and integration tests with Specflow in Gherkins and Cypress in TypeScript.

### Software QA / Software Developer Intern

May 2021 - Dec 2021

*Rakuten Kobo Inc.*

- Thoroughly tested and debugged .NET software using Jenkins to practice continuous integration and attended daily release meetings to push code into the production code base.
- Developed web software using C# and CSS to address user reported bugs and wrote SQL scripts to apply configuration changes to the production website.
- Debugged and resolved intermittent UI test failures written with Ruby using Allure Report.

## PERSONAL AND ACADEMIC PROJECTS

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### Scrabble Calc Web Tool

2022 - 2023

- Wrote a web application to automate score calculations for Scrabble games, store past games, display various high scores, and perform analytics on players' Scrabble performances.
- Uses Node.js to implement a GraphQL API that stores and retrieves Scrabble games from MongoDB.
- The frontend was written with React in TypeScript and uses the ApolloClient to perform queries and mutations with the GraphQL API.

### Puzzle – Minecraft Server Administrator

2020 - 2021

- Developed software to run a Minecraft server which can start, stop, restore, backup, and manage multiple Minecraft worlds through a command line and web application user interface.
- 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 command line version was written in Bash for the Linux terminal and the web app was written with React, where the backend implements a REST API in Java.

### SportCred Web Applicaton

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 predictions, and a public discussion forum.
- Designed with an MVC software design pattern, it uses React on the frontend and a Neo4j DB backend.
- Implemented database queries on the backend and developed the website with React, making HTTP requests to REST API endpoints using Axios.

## TOOLS AND TECHNOLOGIES

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**Languages:** Java, Python, C, Shell, Bash, JavaScript, TypeScript, SQL, HTML, CSS

**Other:** React, Cypress, Neo4j, MongoDB, REST, Git, SVN, Jira, Agile Methodology, Linux