King Lai

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EDUCATION

University of Toronto - Scarborough
Honours Bachelor of Science, Computer Science, Co-op (High Distinction - 3.75/4.00 cGPA)   *2019 - 2024*

EXPERIENCE

Software Developer Intern   May 2022 - Dec 2022
Ceridian HCM Inc.
- Wrote frontend web software using React in TypeScript and developed backend software in C# working with RESTful API. Developed new user features according to user stories and the provided web 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.
- Contributed to 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.
- Worked under an Agile Environment using Microsoft Azure DevOps and attended daily scrums and sprint retrospectives to acknowledge what the team did well and what can be improved.

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 main / production code base.
- Developed software in C# and SCSS 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.
- Worked in an Agile Environment using JIRA and attended daily stand-ups to discuss work progress, as well as a retrospective meeting and worked as a team to come up with solutions to our concerns.

PERSONAL AND ACADEMIC PROJECTS

Scrabble Calc Web Tool   2022
- 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 a MongoDB database. The API is hosted on Heroku and the database is hosted using MongoDB's cloud hosting.
- The frontend was written with React in TypeScript and uses the ApolloClient to perform queries and mutations with the GraphQL API, and is hosted using Google Firebase.

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 the RESTful API in Java.
- The RESTful API runs the server scripts remotely and is deployed using Heroku, and the web application is hosted using Google Firebase.

TOOLS AND TECHNOLOGIES

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