

Matthew Lai

Major in Computer Science, 5th Year

778-389-1081 mklai10@hotmail.com <https://github.com/mklai10>

Canadian Citizen

Technical Skills

Programming Languages: C++, C, Java, JavaScript, TypeScript, Julia, HTML, CSS, Haskell, Prolog, SQL
Software: VS Code, MATLAB, IntelliJ, R, Oracle, SWI-Prolog

Technical Projects

Escape Lavis (Personal)

June 2024 - Present

- Created a simple 3D game using OpenGL, and Three.js
- Designed the web application using Three.JS, HTML and CSS
- Takes user input to control a character trying to escape from a threat

Technologies: OpenGL, Three.js, Javascript, HTML, CSS

SQL Database (Academic)

March 2024 - May 2024

- Created a database using Oracle and SQL
- Implemented a backend with Java to connect a Java Swing frontend to Oracle
- Designed a frontend in Java Swing to query data on a popular video game

Technologies: Java, Oracle, SQL

Matehwai (Personal)

April 2021 - Dec 2023

- Created an intelligent robot in Java to interact with users on the Discord app, a messaging social platform, using an open source API called JDA
- Parsed user inputs from the app into the Java program to execute commands that were implemented for certain inputs
- Implemented a saving function that stores data from users into a JSON file stored within the Java files
- Contains multi user interactable games such as heads or tails

Technologies: Java, JDA

Work Experience

QA Software Tester, Cambio BGC Engineering Sept 2024 - Present

- Performed manual tests on mobile software to ensure integrity of the app
- Aided in writing Selenium test cases for the web page
- Participated in agile methodology for a smooth and efficient working environment

QA Developer, Later Social Media Management Tool Jan 2023 - Sept 2023

- Developed end to end test cases for outgoing features using Javascript
- Organized and managed test sprints ensuring the integrity of new features
- Performed automated test using Selenium to debug features and code

Labourer, Hong's Nursery & Florist, Surrey June 2022 - August 2022

- Acted as a general labourer for the farm, moving and disposing of plants
- Aided a team to disassemble and and construct hundreds of metal shelves and racks
- Independently cleaned over 50 greenhouses with a power washer

Volunteer Experience

Carnivals and Festivals August 2019 - 2020

- Organized and scheduled carnival games for different schools and company festivals
- Constructed tents and other stalls as a team with other volunteers
- Solved problems that would occur during the festivals, with parents or students

Sands Secondary Parent Teacher Conferences March 2019 - 2020

- Acted as customer support positioned at the front office of the school
- Gave directions as well as solved any problems that would occur with scheduling
- Performed the task of being a secretary for a teacher as one of the other students could no longer make it

Education

Computer Science Major , 4th Year Bachelor of Science September 2020 – Present
University of British Columbia, Vancouver, BC GPA: 82%
Expected to graduate in 2025, 2 Co-op terms completed

Interest

Coding, Gaming, Hiking, and Sports

Matthew Lai mklai10@hotmail.com 778-389-1081