

Jai Malhi

[LinkedIn](#)[GitHub](#)

EDUCATION

Software Systems, B.Sc. Simon Fraser University, Burnaby, BC Sept. 2021 – Present

- **Programming Coursework:** Algorithms and Data Structures, OOP design in Java and C++
- **Other Coursework:** Descriptive and inferential statistics, Chance phenomena and data analysis

SKILLS

Software: C++, C, Java, HTML/CSS, Python, JavaScript, Git

Technologies.: React, Node, Bootstrap, Ansible, Docker, Pandas, NumPy, Unix, Vitest, JUnit, Spring

Applications: VS-Code, IntelliJ, GitHub, MATLAB

EMPLOYMENT

Software Developer Intern CaminoSoft Jan. 2022 – Sept. 2022
(<https://caminosoft.com>)

- Developed Data Science applications in Python using libraries like Pandas and NumPy
- Improved data parser (csv inputs) runtime by ~20% by utilizing the Pandas library's chunking capabilities while maintaining low memory usage
- Assisted in maintaining code style and efficiency of programs by refactoring code when necessary
- Designed and built infrastructure automation tool to deploy updates on client machines using Ansible

Stock Clerk Save-on-Foods Oct. 2018 – June. 2021

- Responsible for transferring and organizing stock inside the store
- Ordered and rotated stock, ensuring no products were expired and that dated products remain at the front
- Managed stock levels, kept aisles and coolers looking professional

SOFTWARE PROJECTS

Personal Website: jaimalhi.ca

Lead Developer Mutant Database December 2022

- Designed and implemented a database to store information about 'mutants' that allows users to add, delete, and view mutant information using a JavaFX GUI
- Created RESTful backend server enabling mutants to be stored locally in JSON files
- Devised interface for the frontend allowing users to add, delete, and view data through visual representations of mutant attributes like strength, weight, rank, etc.
- Utilized: Java language, JavaFX, Spring

Designer/Developer Dream App March 2023

- Developed a WebApp that send requests to OpenAI's DALL-E API to generate images based on user input and display them in a neat manner
- Incorporated Vitest to test app functionality and handle any/all potential edge cases and errors
- Utilized: JavaScript, CSS, HTML, DALL-E API, Vitest

Developer Discord Music Bot May 2023

- Developing a music bot for the social platform Discord allowing any guild member to play, stop, skip, and queue songs alongside other functionalities
- Integrated node.js to launch and maintain bot ensuring continuous uptime
- Added ffmpeg to convert YouTube content into stream-able audio files that can be played through Discord with little to no delay
- Utilized: JavaScript, discord.js, node.js, ffmpeg