

Jai Malhi

EDUCATION

Software Systems, B.Sc.	Simon Fraser University, Burnaby, BC	Sept. 2021 – Present
<ul style="list-style-type: none">• 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: (*proficient*): C++, C, Java (*familiar*): Python, JavaScript, HTML/CSS, Git

Technologies.: Bootstrap, Ansible, Docker, Pandas, NumPy, Unix commands

Applications: VS-Code, IntelliJ, GitHub, MATLAB

SOFTWARE PROJECTS

Lead Developer	Mutant Database	Sept. 2022 – Dec. 2022
<ul style="list-style-type: none">• 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.• <u>Utilized:</u> Java language, JavaFX, Spring		

Designer/Developer	Quiz WebApp	November 2022
<ul style="list-style-type: none">• Developed a Trivia/Quiz Webapp using JavaScript that allows users to answer a variety of questions and save and compare individual scores• Integrated the Open-Trivia Database using the Fetch API allowing the use of no local files to store questions• Incorporated persistent data storage to store scores using local storage (browser)• <u>Utilized:</u> JavaScript, CSS, HTML, Fetch API, Open Trivia DB		

Lead Developer	Pish Interpreter	May. 2022 – Aug. 2022
<ul style="list-style-type: none">• Implemented a Python-ish interpreter that takes in python like commands from a text-file or command line then parses and executes them• Used a binary tree to hold keywords and operations, while using a hash table to store all user created variables• <u>Utilized:</u> C++ language, Binary AVL trees, Hash tables		

EMPLOYMENT

Personal Website: jaimalhi.ca

Software Developer Intern (https://caminosoft.com)	CaminoSoft	Jan. 2022 – Sept. 2022
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Responsible for transferring and organizing stock inside the store• Ordered and rotated stock, ensuring no products were expired and products with close expiries remain at the front• Managed stock levels, kept aisles and coolers looking professional		