

# Jai Malhi

## EDUCATION

Software Systems, B.Sc.	Simon Fraser University, Burnaby, BC	Sept. 2021 – Present
<ul style="list-style-type: none"><li>• <b>Programming Coursework:</b> Algorithms and Data Structures, OOP design in Java and C++</li><li>• <b>Other Coursework:</b> Descriptive and inferential statistics, Chance phenomena and data analysis</li></ul>		

## SKILLS

**Software:** (*proficient*): C++, C, Java, HTML/CSS (*familiar*): Python, JavaScript, Git  
**Technologies.:** React, Bootstrap, Ansible, Docker, Pandas, NumPy, Unix commands  
**Applications:** VS-Code, IntelliJ, GitHub, MATLAB

## EMPLOYMENT

Software Developer Intern ( <a href="https://caminosoft.com">https://caminosoft.com</a> )	CaminoSoft	Jan. 2022 – Sept. 2022
<ul style="list-style-type: none"><li>• Developed Data Science applications in Python using libraries like Pandas and NumPy</li><li>• Improved data parser (csv inputs) runtime by ~20% by utilizing the Pandas library's chunking capabilities while maintaining low memory usage</li><li>• Assisted in maintaining code style and efficiency of programs by refactoring code when necessary</li><li>• Designed and built infrastructure automation tool to deploy updates on client machines using Ansible</li></ul>		
Stock Clerk	Save-on-Foods	Oct. 2018 – June. 2021
<ul style="list-style-type: none"><li>• Responsible for transferring and organizing stock inside the store</li><li>• Ordered and rotated stock, ensuring no products were expired and products with close expiries remain at the front</li><li>• Managed stock levels, kept aisles and coolers looking professional</li></ul>		

## SOFTWARE PROJECTS

Personal Website: [jaimalhi.ca](http://jaimalhi.ca)

Lead Developer	Mutant Database	Sept. 2022 – Dec. 2022
<ul style="list-style-type: none"><li>• Designed and implemented a database to store information about 'mutants' that allows users to add, delete, and view mutant information using a JavaFX GUI</li><li>• Created RESTful backend server enabling mutants to be stored locally in JSON files</li><li>• Devised interface for the frontend allowing users to add, delete, and view data through visual representations of mutant attributes like strength, weight, rank, etc.</li><li>• <u>Utilized:</u> Java language, JavaFX, Spring</li></ul>		
Designer/Developer	Quiz WebApp	November 2022
<ul style="list-style-type: none"><li>• Developed a Trivia/Quiz Webapp using JavaScript that allows users to answer a variety of questions and save and compare individual scores</li><li>• Integrated the Open-Trivia Database using the Fetch API allowing the use of no local files to store questions</li><li>• Incorporated persistent data storage to store scores using local storage (browser)</li><li>• <u>Utilized:</u> JavaScript, CSS, HTML, Fetch API, Open Trivia DB</li></ul>		
Lead Developer	Pish Interpreter	May. 2022 – Aug. 2022
<ul style="list-style-type: none"><li>• Implemented a Python-ish interpreter that takes in python like commands from a text-file or command line then parses and executes them</li><li>• Used a binary tree to hold keywords and operations, while using a hash table to store all user created variables</li><li>• <u>Utilized:</u> C++ language, Binary AVL trees, Hash tables</li></ul>		