Nimrat S. Brar

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EDUCATION

Mount Royal University   **Calgary, Alberta Canada**
B.S. in Computer Science   *Expected Graduation, December 2024*
- o **Academic Achievements**: *Dean's Honor Roll* (2022,2024)
- o **Related Coursework:** Data Structures & Algorithms, Computer Organization & Programming, Object-Oriented Programming, Operating Systems, Web Development**,** Distributed Systems

PROJECTS

Grow Share   **Calgary, Alberta**
Team Member   *Oct 2023*
- ● Created a website to promote health and wellness on the university campus and local community for a hackathon.
- ● The website allows users to join a community garden on campus or in other areas in the city of Calgary. On the website, users can create blog posts talking about their gardening and mental health journeys.
- ● The website was created using HTML, CSS, and JavaScript.
- ● Finished second in the competition.

Personal Portfolio Website   **Calgary, Alberta**
Developer   *Aug 2023 – Sept 2023*
- ● Created a personal portfolio website that highlighted my skills, hobbies, and side projects that I have created. In the contact section, I used a google app to receive messages from people who filled out the form in the contact section.
- ● Utilized HTML, CSS, and JavaScript to create the website.

Mandelbrot Set Image Generator   **Calgary, Alberta**
Team Lead   *Nov 2023 – Dec 2023*
- ● Created a Multithreaded program that creates a Mandelbrot set PNG. The program allows the user to choose the number of iterations of the Mandelbrot algorithm to run, the number of threads used to create the image, and the size of the image. This program was made using C.

Comb Sort Algorithm Animation   **Calgary, Alberta**
Team Member   *Nov 2021 – Dec 2021*
- ● Created an animation that showed a visual representation of the comb sort algorithm in action.
- ● Utilized Java and Swift to create the animation.

Playlist Generator   **Calgary, Alberta**
Team Member   *Nov 2022 – Dec 2022*
- ● Created a playlist generator that made use of Spotify's API to get songs from 2016 to create a playlist. Each song also had metrics that described things like danceability, popularity, etc.
- ● This playlist generator was made using HTML, CSS, and JavaScript.

ACTIVITIES

Computing Alliance of Mount Royal University   **Calgary, Alberta**
Member   *Sept 2020 – Current*

MRU Hacks 2023   **Calgary, Alberta**
Participant   *Oct 2023*

SKILLS

Programming: Java, Python, JavaScript, HTML/CSS, SQL, Node.js, React.js, C++, C
Tools: VS Code, Visual Studio, Eclipse, Git