

# Jaskaran Singh Bhatia

Calgary, AB | (587) 966-3848 | [jskrnbhatia@gmail.com](mailto:jskrnbhatia@gmail.com) | [GitHub](https://github.com/jaskaranbhatia25): <https://github.com/jaskaranbhatia25>

## EDUCATION

### University of Calgary, Schulich School of Engineering

Sept, 2020 - April, 2025 | **Calgary, Canada**

- Bachelor of Sciences - Software Engineering (GPA: 3.5/4.0)
- Dean's List (2020-21)
- President's Admission Scholarship

## SKILLS

**Programming:** Python, Java, C++, C, SQL, HTML, CSS, and JavaScript

**Frameworks & Databases:** React.js, Node.js, MongoDB

**Languages:** English, Hindi, and Punjabi

## ENGINEERING PROJECTS

### Food Bank Hamper Ordering System, Java

- Collaborated with a team of three members to develop a full-stack object-oriented Java application which generates a optimum hamper of food items based on calories requirement by taking number of family members as user input.
- This application also updates SQL Database, remove food items from the inventory and give the best possible combination of food items with minimizing excess calories, and also informs the user of the food shortage in terms of nutrients in case of less food items in the inventory

### CPU Scheduling Simulator, C++

- Developed a C++ program which simulates round-robin CPU scheduling algorithm.
- This program reads an input consisting of set of processes and a time slice, where every process is described by an id, arrival time and CPU burst.
- This program simulates RR scheduling and calculate start and finish time of every process along with condensed sequence of all the processes

### Dynamic Memory Partition Simulator, C++

- Developed a C++ program that simulates the worst-fit dynamic partitioning of the memory.
- It also approximates some of the functionality of malloc() and free() in standard C library.

## VOLUNTEER

### VP Finance, 4SIGHT, UCalgary

Aug, 2022 – Present | **Calgary, Canada**

- To analyze, promote, and conceptualize ways to tackle issues threatening the four pillars of sustainability (4PS); Cultural, Environmental, Economic, Social.
- Organized workshops to provide students with the infrastructure required to kickstart their own 4PS-related projects/crafts and oversee their completion over multiple weeks/months.
- Aimed at reducing the environmental impact of the University of Calgary by cutting down its net output of waste.
- Organizing events and projects with the sole purpose of upcycling waste.

### Software Team Member, Schulich Space Rover Team, UCalgary

Mar, 2020 - July, 2022 | **Calgary, Canada**

- Worked with the electrical, mechanical and the software team to create a Mars rover from the ground up.
- Worked with the software team in creating waypoints on a map, creating software to run live camera feeds, and completing necessary calculations to drive motors.
- Competed this summer at the Canadian International Rover Challenge by creating a sustainable rover with various components that can be used for multiple years.

## LEADERSHIP EXPERIENCES

### VP Off-Campus Events, Indian Student Association, UCalgary

Aug, 2022 – Present | **Calgary, Canada**

- Leading a team of 15-20 and overseeing events with 500-1000 attendees.
- Responsible for the execution and planning of multiple major events, setting the agenda and the sequence of the events.
- Responsible for contracting DJ, arranging sound equipment, and in charge of ensuring the event is running smoothly, getting to know the DJ, and making sure all audio and visual is set for the event.
- Responsible for contacting external sponsors for the events and looking for a charity organization in need for all the profit generated by events.

### Mentor, Schulich Student Mentorship Program, UCalgary

Aug, 2022 – Present | **Calgary, Canada**

- Built positive connections with four first year engineering undergraduate students.
- Helped them navigate the resources and the opportunities available at the University of Calgary.
- Gave them a whole campus tour, which helped them make a decent transition to the university environment.