

# Hargun Sibal

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## SKILLS

### Languages

Python, JavaScript, C++, Java, HTML, CSS

### Tools + Libraries

Scikit-Image, OpenCV, NodeJS, React, Github, Git, VSCode

## AWARDS & SCHOLARSHIPS

### Gerald G. Hatch LTD Scholarship

Awarded to an individual out of 150 students who has shown exemplary achievements in academics, innovation, and leadership in the community

### Ontario Principals' Council Award for Student Leadership

Awarded to one student who has demonstrated excellence in academics and has participated and shown leadership in a variety of extracurricular activities

### DECA ICDC Qualifier and Competitor

Top 10 award out of 100 teams in an international business case competition

## EDUCATION

### University of Waterloo

Sept 2021 - Apr 2026

Candidate for BAsC. in Systems Design Engineering

Relevant Courses: Digital Computation (C++), Visualization Graphics Lab (Onshape)

## WORK EXPERIENCE

### Hatch LTD

Software Engineering Intern

2021 June - 2021 Aug  
Mississauga, ON

- Developed a vision system in a coilbox circulatory plant using **Python**, **OpenCV**, and **Scikit-Image** libraries to identify poor shapes and improve accuracy by 100%
- Improved edge detection and eliminated obstructions in images by 90% by applying filtering techniques in Python, including RANSAC, convex hull mapping algorithms, and background subtraction

### Spirit of Math Schools

Assistant Teacher

2017 Sept - 2021 June  
Mississauga, ON

- Taught 24 high school and elementary school students weekly in an accelerated math program
- Increased overall averages of students by 13% resulting in the highest performance evaluation rating by the manager

### Ashlin BPG

Digital Production Intern

2017 June - 2017 Sept  
Oakville, ON

- Directed and created 15 promotional stop motion videos using **Adobe Photoshop** and **iStopMotion** for leather goods
- Increased viewership on the YouTube channel by 130%

## COMMUNITY & PROJECTS

### Ontario Youth Medical Society Website 2021 June - 2021 Sept

- Built a responsive web application adhering to accessible design principles in **JavaScript**, **HTML**, and **CSS**
- Led Google Sheets **API** integration to store users' contact information
- Increased traffic to the page by 110%, servicing over 200 users for the Ontario Youth Medical Society
- Streamlined the design and planning process using Notion

### Trailhacks Hackathon

2020 Sept - 2020 Dec

- Co-founded and planned a local Hackathon that was held for 40+ students in the Halton region
- Championed sponsor outreach, promotion, and external event planning resulting in 10 organizational sponsors
- Created a **Python** workshop showcasing fundamentals of data structures and algorithms

### Shad Fellow

2019 July - Present

- Participated in a month-long entrepreneurial program at the University of Calgary alongside 63 other high-achieving secondary school students
- Designed a self-containing plastic-eating bacteria, *Ideonella Sakaiensis*, as a solution to Canadian waste
- Awarded the Best Business Plan award out of 8 teams