

Savir Singh

✉ savirsinghwork@gmail.com in in/savirss 🌐 savirsingh 🌐 savirsingh.com

Experience

University of Waterloo

Waterloo, Canada

Software Engineering & Research Intern

January 2024 – April 2024

- Worked with a team of PhD students on a **software security** research project called **FuzzSlice**
- Added some support for **C++ repositories** to the project
- Built a **Flask web app** to make interacting with the product **more efficient**
- Produced a **video demo** of FuzzSlice using the GUI I developed
- My video demo and GUI were presented in the **ICSE 2024 Research Track**

DMOJ: Modern Online Judge

Toronto, Canada

Problem Setter & Contest Uploader

September 2023 – Present

- Uploading and setting **competitive programming** contest problems
- Passed a **qualification quiz** on my first attempt
- Developed **10+** competitive programming problems
- Added Canadian Computing Competition (2024) problems to Canada's **largest online competitive programming judge**

American Inn Ozark

Ozark, USA

Backend Engineer Intern

June 2023 – September 2023

- Built an **automated system** to handle updating available rooms on the website
- Programmed a **real-time pinging system** to notify staff of new reservations
- Used a **MySQL database** to handle hotel reservations efficiently
- Increased room reservations by **30%** over one month

Education

Garth Webb Secondary School

Oakville, Canada

Ontario Secondary School Diploma

September 2021 – June 2025

Executive Leader of Computer Science Club, Executive Leader of Financial Literacy Club, Founder & President of Competitive Programming Community, Member of Math Club, Member of Physics Club

Listed on academic honour roll for high-achieving students in grades 9-10

Skills

Programming Languages: Python, C/C++, Java, HTML, CSS, JavaScript

Frameworks/Tools: Linux, Git, Docker, React.js, Flask, Django

Projects

Math Contest Repository

October 2023 – Present

An online **math contest platform** with 200+ registered users, 220+ community members, 1400+ problems, and over 7000 monthly impressions. We have the support of **Desmos as a partner**

BYTEsense

September 2023

A project we developed for **Hack the North 2023**. BYTEsense is an **AI-powered tool** which personalizes itself to a user's individual dietary needs. The purpose of the app is to inform the user how a **new cuisine** may affect them

Volcano Judge

October 2022 - January 2023

Volcano Judge is an online competitive programming judge designed specifically to aid in learning new **algorithms and data structures**. Supports and has **sandboxing for Python and C++**

Honours & Awards

Top 8% on Canadian Computing Competition (Senior) 2024

March 2024

Achieved a score of **37/75** and a rank of **310 out of 3948 participants** in Canada's national programming competition

3x First Place on PEO Mississauga High School Coding Contest

November 2021, 2022, 2023

I won first place **three times** in the high school coding contests hosted by Professional Engineers Ontario (PEO) - Mississauga Chapter

Hack the North 2023 Replit Prize Winner

September 2023

Awarded second place prize from Replit and Hack the North for building BYTEsense. Valued at \$200

13th Place Provincially - Skills Ontario Coding Competition

May 2023

Ranked **13th place** in provincial level programming competition. Qualified by **achieving first place** in board-level competition

Gold Medalist, Board Representative - Halton Skills Coding Competition

March 2023

Ranked **first place** in school board programming competition. Qualified to **represent school board in provincial competition**