Savir Singh

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

Experience

University of Waterloo — Waterloo, Canada
Software Engineering & Research Intern — *January 2024 – Present*
- Working with a team of PhD students on an innovative **software security** research project
- Making the interface more **user-friendly** by building a **GUI**
- Building a **static website** to showcase and market the product
- Adding support for **C++ repositories** to the project
- Building a **Flask web app** to make interacting with the product **more efficient**

DMOJ: Modern Online Judge — Toronto, Canada
Problem Setter & Contest Uploader — *September 2023 – Present*
- Uploading and setting **competitive programming** contest 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 170+ registered users, 215+ community members, 1300+ problems, and over 6000 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**