Savir Singh

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EDUCATION

Garth Webb Secondary School — Oakville, Canada
Ontario Secondary School Diploma — *September 2021 – June 2025*
- Executive Leader & Lecturer: Computer Science Club (President), Financial Literacy & Investment Club
- Member: Mathematics Club, Physics Club, Tennis Club (played weekly at Glen Abbey Community Centre)
- Wrote all CEMC contests, SIN/OAPT contests, and participated in FRC 5409 robotics learning sessions

EXPERIENCE

University of Waterloo — Waterloo, Canada
Software Engineering Intern & Student Researcher — *January 2024 – April 2024*
- Worked with a **team of PhD students** on a software security project, **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**

American Inn Ozark — Ozark, USA
Backend Engineer Intern — *June 2023 – September 2023*
- Built an **automated system** to handle updating available rooms on a website
- Programmed a **real-time pinging application** to notify staff of new reservations
- Used a **MySQL database** to handle hotel reservations efficiently
- Worked closely with hotel management to **purchase domains and set up websites**

PROJECTS

Math Contest Repository — *October 2023 – Present*
An online **math contest platform** with 200+ registered users, 230+ community members, 1400+ problems, and over 7000 monthly impressions. We have the support of **Desmos as a partner**. I **fully developed** this project, and **managed** a team of developers and business students that assisted me in maintaining it.

BYTEsense — *September 2023*
A project we developed for **Hack the North 2023**. BYTEsense is an **AI-powered tool** using OpenAI and Cohere APIs 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. Our team of 4 was awarded **a $200 prize from Replit**, as we had built the app on their platform.

Volcano Judge — *October 2022 – January 2023*
Volcano Judge is an online **competitive programming** judge (similar to LeetCode or Codeforces) 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: Achieved a score of **37/75** and a rank of **310 out of 3948 participants** in Canada's national programming competition. (March 2024)

3x First Place on PEO Mississauga High School Coding Contest: I won first place **three times** in the high school coding contests hosted by Professional Engineers Ontario (PEO) - Mississauga Chapter. **Invited to intern at PEO** and help in designing the next programming competition. (November 2021, 2022, 2023)

Hack the North 2023 Replit Prize Winner: Awarded second place prize from Replit and Hack the North for building BYTEsense. Valued at $200. (September 2023)

13th Place Provincially – Skills Ontario Coding Competition: Ranked **13th place** in provincial level programming competition. Qualified by **achieving first place** in board-level competition. (May 2023)

Gold Medalist, Board Representative – Halton Skills Coding Competition: Ranked **first place** in school board programming competition. Qualified to **represent school board in provincial competition**. (March 2023)

SKILLS

Languages: Python, C/C++, Java, HTML, CSS, JavaScript
Frameworks/Tools: Flask, React.js, Git, Linux, Docker