

Savir Singh

 savirsingh.com

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EDUCATION

University of Toronto

Honours Bachelor of Science

Toronto, Canada

2025 – 2029

- Intending to pursue Computer Science + Mathematics double major
- Relevant coursework: Advanced Theoretical Calculus With Proofs, Advanced Linear Algebra, Introduction to Computer Science, Mathematical Expression and Reasoning for Computer Science, Introduction to Statistics and Data Science

EXPERIENCE

General Robotics

Software Engineer Intern, AI Model Research

Kirkland, USA

September 2024 – December 2024

- Worked with engineering mentor/team who guided me in achieving my research targets
- Expanded robotic perception system by adding 3 new ML models
- Implemented action recognition model that classified perceived actions as positive or negative
- Enhanced visual odometry performance by 15% by implementing a DPVO-inspired pipeline

University of Waterloo

Software Engineer Intern & Student Researcher

Waterloo, Canada

January 2024 – April 2024

- Worked with a team of 2 PhD students and a professor on a software security project, FuzzSlice
- Participated in technical sessions to learn and implement best practices for code quality
- Added support for C++ repositories to the project, increasing test repository coverage by over 30%
- Built Python Flask + React.js web app that decreased demo prep time by 60% for researchers and presenters
- Produced a demo video and GUI used in the ICSE 2024 Research Track (in Portugal), viewed by 2,000+ attendees

American Inn Ozark

Backend Engineer Intern

Ozark, USA

June 2023 – September 2023

- Wrote automation scripts that reduced room update delays from 30 minutes to under 2 seconds
- Developed a Python Flask real-time reservation notification system that cut customer wait times by over 35%

PROJECTS

Math Contest Repository

October 2023 – Present

 mathcontestrepository.pythonanywhere.com

- Built an online math contest platform that boasts 500+ registered students, 700+ community members, and 1,400+ problems, generating 10,000+ monthly impressions, partnered with Desmos to add online calculators
- Added leaderboard, problem tagging, and live contest features, enhancing user retention by nearly 45%

Clonio AI

May 2024 – Present

 Clonio AI

- Developed an iOS app turning users into AI chatbots based on previous chat logs; top 25 on North American/Swiss App Stores in productivity category, achieved 200+ downloads in first week; processed over 100,000 messages
- Implemented fine-tuned Gemini backend to generate custom chatbot personas with over 90% retention on first use
- Interviewed by Village Media; Clonio AI article published in 10+ news websites
- Awarded a \$3,500 grant by the Ontario government to fund development

Independent Research

April 2024 – Present

- Investigated the Odd Perfect Number (OPN) conjecture; independently derived Euler's result on their form
- Prototyped algorithm with Carnegie Mellon professor to develop heuristics for generating addition-subtraction chains

Volcano Judge

October 2022 – January 2023

 [savirsingh/volcano-judge](https://github.com/savirsingh/volcano-judge)

- Developed online judge platform supporting Python/C++ to teach algorithmic thinking
- Implemented sandbox for Python programs to secure the platform, built a RESTful API for grading technology

ACHIEVEMENTS

Top 5%, Canadian Computing Competition (Senior)

2024-2025

3x First Place & Internship Invitee, PEO Mississauga Chapter High School Coding Contest

2021-2023

\$200 Second Place Prize From Replit, Hack the North '23 (for building BYTESense)

2023

Gold Medal (2023) & Silver Medal (2025), Halton Skills Coding Competition

2023, 2025

SKILLS

Languages: Python, C/C++, Java, SQL, HTML, CSS, JavaScript, Swift

Frameworks/Tools: Flask, Django, React.js, Git, Linux, Docker, Tensorflow, SciPy, PyTorch, NumPy, Matplotlib

Concepts: Algorithms & Data Structures, Security, LLMs, Simulation, ML Inference, Debugging

Personal Skills: Quick problem-solving, strong communication & interpersonal skills, teamwork