

Aayush Gupta

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EDUCATION

IB (International Baccalaureate) — Silver medalist 90+average, Grade 10 - Merivale High School

SKILLS

Technical Languages: C++, Java, JavaScript, Python, CSS, HTML

Tools: Excel, Word, PowerPoint, Git, Node.js, PyTorch, React.js, Next.js, TensorFlow

Core Strengths: Problem Solver, Critical Thinker, Creativity, Communication, Teamwork

Languages: English, French, Hindi

AWARDS AND CERTIFICATIONS

Canadian Economic Olympiad National Finalist (Best in City)	2026
Ottawa Regional Science Fair - Best in Division (Digital Technology)	2025
Physics 1, Physics 2, Algorithms 1 - Carleton University Enrichment Courses	2025
Canadian Team Programming Challenge - Received an individual score of 12	2025
HTML, CSS, and JavaScript for Web Developers - Johns Hopkins University	2025
Crash Course in Data Science - Johns Hopkins University	2025
Beaver Computing Challenge - Achieved a perfect score and earned distinction	2024

EXPERIENCE

Robotics - FRC 8729 Software developer, Vex 50226 Driver and Team Captain **Sept. 2024 - Present**

- Designed and implemented command-based robot control software using Java/ C++ and OOP with PID tuning
- Integrated computer vision systems using Raspberry Pi and Orange Pi to support autonomous and assisted driving

First Lego League - Team 72902 Lead Mentor **Jan. 2024 - Present**

- Taught robotic fundamentals and techniques to young students
- Taught the usage of code in robots and how to use Arduinos for Robotics

Ottawa Friend Circle - Volunteer event organizer **July 2024 - Present**

- Helped plan and organize community events for seniors, supporting social connection and inclusion
- Assisted with event setup, coordination and inclusion

Ontario Basketball - Referee and Player **2024 - Present**

- Officiated youth basketball games for teams, ensuring fair play, safety and rule enforcement

Douvris Karata - Volunteer Sensei (Black Belt) **Jan. 2024 - Dec. 2024**

- Taught karate fundamentals and techniques to young students and promoted discipline, confidence and respect.

PROJECTS

ApneaGuard | Python, HTML, JavaScript, CSS, TensorFlow **January 2026**

- Developed an end-to-end machine learning pipeline in Python to preprocess raw ECG signals
- Designed and trained a 1D Convolutional Neural Network (CNN) to detect potential sleep apnea

Math Tools | HTML, JavaScript, CSS **March 2025**

- Designed and built an interactive website that performs automated math calculations for functions like volume and surface area of complex shapes, graphing, currency conversion, and a stock simulator