

# SHEHWAZ SAINI

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## Education

### International Baccalaureate Diploma Programme (IBDP)

Expected Graduation: 2027

High School Student — Focus: Computer Science, Business, Mathematics

Canada

- Completed **Harvard CS50x**, building foundational expertise in C, Python, algorithms, and software engineering
- Active in **competitive programming** to strengthen algorithmic problem-solving

## Experience

### Software Engineering Intern — Truewebpro (UK-based)

Aug 2024 – Present

Remote (India / UK / Canada collaboration)

- Collaborated with two developers and independently deploy an **AI-powered API** that generates SEO-optimized product descriptions, FAQs, and metadata.
- Automated the product listing workflow, improving efficiency by over **10x**.
- Developed key features using **TypeScript**, **JavaScript**, and **OpenRouter APIs**, focusing on performance and scalable automation.

### High School Research Investigator — Youreka Canada

Jun 2024 – Sep 2024

Remote

- Collaborated with undergraduate mentors to conduct research on the **effects of vaccine coverage on measles incidence**, then presented findings to professors at the University of Windsor
- Performed **data analysis using R**, applying **Pearson correlation** and **linear regression** to identify a strong inverse relationship ( $r = -0.54$ ,  $p < 0.001$ ).

## Projects

### Signify | Live ASL and Emotion Detection Translator

Python, TensorFlow, OpenCV, React

- Built an AI-based translator that recognizes American Sign Language gestures and emotions in real-time video
- Integrated **TensorFlow CNN models** and **OpenCV** for frame-by-frame classification and translation

### Finance Tracker Web App | Personal Project

Python, Flask, SQL, JavaScript

- Built a full-stack finance tracking application with dynamic routing, secure user authentication, and real-time stock price integration via API calls

### Competitive Programming and AI Exploration

C++, Python

- Solving algorithmic problems daily on LeetCode and Codeforces; exploring AI, data structures, and optimization techniques

## Achievements

- **World Robot Olympiad (WRO)** — 1st Place (Regional), 2nd Place (National), 2nd Place (International Invitational Championship, Panama)
- **Harvard CS50x Certificate** — Completed full program with distinction

## Leadership

### President — Coding Club

Sept 2024 – Present

- Lead weekly sessions teaching **competitive programming and CS50x concepts** to peers
- Mentored multiple students to complete Harvard CS50x and earn certificates

### Founder — Speedcubing Club

Sept 2024 – Present

- Founded and organized a school-wide speedcubing club with over 30 active members
- Hosted weekly challenges and developed resources to improve members' cube-solving speed

## Technical Skills

**Languages:** Python, C, C++, Typescript, JavaScript, SQL, HTML/CSS

**Frameworks:** React, Node.js, Flask, Django, TensorFlow, OpenCV, Supabase, SQLite

**Developer Tools:** Git, VSCode, Linux, Docker (basic), Vercel, Postman, Nvim