

Anish Aggarwal



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AWARDS

Schulich Leader Scholarship \$80,000~University of Waterloo

1 of 10 students chosen from over 300,000 applicants across Canada

René DesCartes Scholarship \$25,000~University of Waterloo

Highest-value math scholarship awarded to <10 students

Governor General's Award Bronze Medal~Vincent Massey S.S.

Ranked 1st academically in a class of 500+ students

SKILLS

Languages:

- Python
- C
- C#
- C++
- Java
- JavaScript*
- HTML/CSS*

Frameworks:

- Node.js*
- Vue.js*
- Nuxt.js*
- Unity
- Express
- AnyLogic Sims

Tools:

- Git (Used in Every Project Listed)
- Docker
- Linux Administration
- SQLite
- Apache Web Server
- Cloudflare*

Hardware:

- Raspberry Pi
- Arduino
- Windows/ Vive VR Headsets
- Kinect 360 Sensors
- LeapMotion

Soft Skills:

- Leadership/Management
- Teaching
- Technical Writing
- Teamwork/Collaboration

Work Authorization:

- US-Canada Dual Citizenship

PROJECTS

DiscourseVR - Web VR Debate Platform

April 2021

- Created an application that records speeches and displays them online for timed feedback to help users practice their debate and public speaking skills
- Used: **Unity (C#)**, **Windows VR Headset**, **Nuxt.js (HTML/CSS, JavaScript)**

ChatSpaceVR - WinHacks 2021 Winner

March 2021

- Awarded \$1,000 in Amazon Gift Cards
- Developed a VR App that creates virtual recreational spaces where users can voice chat and play games like air hockey, table tennis, etc.
- Used: **Unity (C#)**, **Windows VR Headset**

EyeGuide - MHacks 12 Winner

Oct. 2019

- Programmed hardware to assist those with visual impairment by making emergency calls and aiding in text/object recognition
- Used: **Python**, **Unity (C#)**, **Arduino**, **Cloudflare**, **Linux Administration**

AR-itus - MIT Reality Virtually

Feb. 2019

- Used Augmented Reality with Vive passthrough and Leapmotion to help rehabilitate individuals with hand-eye coordination issues
- Used: **Unity (C#)**, **Vive VR Headset**, **LeapMotion**

EXPERIENCE

US Patent Filed & Pending

August 2019

- Designed and developed a working prototype of a coverall which inflates into a chair to help lift fallen individuals (**Technical Writing**)
- Filed a USPTO Patent ~ Application #: 16/550,268

CodeReach - Director & Senior Teacher

2018 - 2019

- Managed the day-by-day schedules and outreach programs for 100+ staff and students in the organization (**Leadership/Management**)
- Taught elementary school students the basics of coding in Python (**Teaching**)

MasseyHacks V - Logistics Executive

2018 - 2019

- Organized the logistics of the oldest high school hackathon in Canada by collaborating with a team of 20+ members (**Teamwork/Collaboration**)
- Responsibilities included scheduling, fundraising, and event planning for 200+ hackers (**Leadership/Management**)

CaYPT Competition - Team Captain

March 2020

- Awarded Bronze Medal in the Canadian Young Physicist's Tournament
- Led and worked in a team to develop solutions with in-depth analysis of aerodynamics, fluid dynamics, and magnetism for 10 real-world physics phenomena (**Teamwork & Collaboration**)
- Used: **AnyLogic Simulations**

EDUCATION

University of Waterloo - Class of 2025

- Program: Candidate for Honors Computer Science (BCS) with Digital Hardware Specialization
- GPA: 3.96