University of Waterloo

Co-operative Work Terms

Anish Aggarwal
20887368
2A Computer Science, Honours, Co-operative Program
Digital Hardware Specialization

No Co-op Work Term History available

Planned Future Work Term(s)

Sep - Dec 2021

May - Aug 2022

Jan - Apr 2023

Sep - Dec 2023

May - Aug 2024

Sep - Dec 2024

A CS Student searching of a Fall 2021 Internship

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 D   *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 D   *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 D   *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

UNIVERSITY OF WATERLOO
UNOFFICIAL GRADE REPORT

Anish Aggarwal
20887368

2A Computer Science, Honours, Co-operative Program

Digital Hardware Specialization

Spring 2021

PD	1	Career Fundamentals	
CS	245	Logic and Computation	
CS	246	Object-Oriented Software Devel	
SPCOM	225	Interviewing	
STAT	230	Probability	
MATH	239	Intro to Combinatorics	

Term Average: N/A   Decision:

Winter 2021

CS	136	Elem Alg Design & Data Abstrac	100
MATH	136	Linear Algebra 1 (Hon Math)	95
ECE	124	Digital Circuits and Systems	99
SPCOM	223	Public Speaking	88
GENE	123	Elec Circuits & Instrument	97
MATH	138	Calculus 2 for Honours Math	99

Term Average: 96.33   Decision:

Fall 2020

MATH	137	Calculus 1 for Honours Math	100
MTHEL	199	Special Topics	CR
		First year readiness	
SEQ	4	Co-op Sequence 4	
ENGL	109	Intro to Academic Writing	81
CS	135	Designing Functional Programs	100
PHYS	121	Mechanics	89
MATH	135	Algebra for Hons Mathematics	99

Term Average: 93.8   Decision: Excellent standing