

Anmeet Sekhon

✉ as2sekho@uwaterloo.ca | [in AnmeetS](https://www.linkedin.com/in/AnmeetS) | [G AnmeetS](https://github.com/AnmeetS) | [AnmeetSekhon.com](https://www.AnmeetSekhon.com)

TECHNICAL SKILLS

Languages: C++/C, Java, Python, Typescript, JavaScript, HTML5/CSS3, SQL, LaTeX, MATLAB, C#

Frameworks: OpenCV, ReactJS, NextJS, ThreeJS, TailwindCSS

Tools: Github, Solidworks, Pytorch, TensorFlow, Linux

PROJECTS

🔗 My Portfolio | *Typescript, Tailwind, Next.js*

- Developed a website to showcase skills, interests and projects
- Worked with **Spotify API** to share what I'm currently listening to, using **Postman** for testing
- Utilized **Server-Side Rendering** to increase page load times

🔗 HANDy Mouse | *OpenCV, Mediapipe, Python, Pytorch*

- Developed a program to control your cursor using motion tracking
- Utilized **OpenCV** library for live video feed and image filtering
- Used **MediaPipe** to for hand landmark detection and drawing

🔗 QBot | *C, C++, Python*

- Designed a Rubik's Cube solving robot in 4 weeks
- Developed code in Robot C to solve any starting configuration of a 3x3 Rubik's Cube
- Implemented authentication function for correct cube placement
- Integrated with external Python algorithm using file I/O

EXPERIENCE

Inqsys Technologies Inc.

Web Developer Intern

Toronto, ON

04/2023 - 09/2023

- Designed the login page using **React.js** for a social media website
- Implemented cross-platform usability across desktop and mobile environments
- Collaborated with QA team to fix front-end bugs

WebPulse Canada Inc.

Web Developer Volunteer

Remote

01/2022 - 09/2022

- Revamped front-end design of 5 websites using **PHP, HTML/CSS & Javascript**
- Implemented **Google Maps API**
- Integrated **MySQL** into contact forms for backend databases

EXTRA CURRICULARS

FIRST Robotics Team 1325

Design Team Lead | 🔗 *Triple Axis Arm*

Mississauga, ON

10/2022 - 04/2023

- Secured 1st place in 2 district championships, ranking 3rd in Canada, 23rd worldwide
- Trained 15+ members in **Solidworks**
- Designed a 3-DOF arm subsystem with custom gearboxes and aircraft cable pulley systems
- Implemented **forward/inverse kinematics** for precise control
- Designed a custom mounting block for integration between off-the-shelf and custom gearboxes
- Selected robot materials and parts based on calculations of torsional stress limits and gear reductions

EDUCATION

University of Waterloo

Bachelor of Applied Science in Mechatronics Engineering

- University of Waterloo President's Scholarship of Distinction

09/2023 - Present

Expected 04/2028

Erindale Secondary School

IB Diploma | Ontario Secondary School Diploma

- Co-President of Interact: Running 8-10 School Events
- Royal Canadian Air Cadets: Earned Rank of Flight Corporal

09/2019 - 06/2023

Received 06/2023

CERTIFICATIONS

MathWorks

CV Onramp | Machine Learning | OOP Onramp | Deep Learning | Reinforcement Learning

- A variety of machine/deep learning courses to broaden my understanding of AI

Microsoft

Azure Fundamentals

- Certifications received through the Microsoft Learn platform