Anmeet Sekhon

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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 Website** | *Typescript, Tailwind, Next.js*
- A website I developed to showcase my skills, interests and projects aesthetically while still being functional
- Implemented common SEO practices, such as SSR and the lazy-loading of images
- Worked with UI libraries such as Flowbite and Typed.js for streamlined development and effects

🔗 **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.   Toronto, ON
Web Developer Intern   *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.   Remote
Web Developer Volunteer   *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   Mississauga, ON
Design Team Lead | 🔗 *Triple Axis Arm*   *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   09/2023 - Present
Bachelor of Applied Science in Mechatronics Engineering   *Expected 04/2028*
- University of Waterloo President's Scholarship of Distinction

Erindale Secondary School   09/2019 - 06/2023
IB Diploma | Ontario Secondary School Diploma   *Received 06/2023*
- Co-President of Interact: Running 8-10 School Events
- Royal Canadian Air Cadets: Earned Rank of Flight Corporal