Anmeet Sekhon

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TECHNICAL SKILLS

Languages: C++/C, Java, C#, Python, JavaScript, HTML5/CSS3
Technologies: REST API's, OpenCV, Pytorch
Tools: Solidworks, Git, SQL, Postman

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

PROJECTS

Rubik's Cube Solver | *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

Computer Vision Sticker Detection | *Python*
- Developed a program to asses hole coverage and identify wrinkles of a circular sticker
- Utilized **OpenCV** library for live video feed, noise filtering, and pattern detection
- Used **YOLOv5 & PyTorch** to train a detection model using custom annotated data sets

Weather App | *C#*
- Developed an interactive weather application to display weather data
- Ingested data from OpenWeatherMapAPI using HTTP request methods

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-point 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