Jesse Huang

1B Honours Computer Science
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Skills & Interests

Languages: React, JavaScript/TypeScript, CSS, HTML, Java, Python, C/C++
Tools & Frameworks: React, Node.js, Express.js, MongoDB, npm, Git
Soft Skills: Team Collaboration, Problem Solving, Interpersonal Communication

Work & Leadership Experience

Waterloo Aerial Robotics Group   September 2022 – Present
Computer Vision Member
- Programmed model to classify various sets of images from CIFAR-10, utilizing Python, PyTorch, and various libraries, becoming member of Computer Vision.
- Assisting in optimizing path of drone, training model to ensure flight path remains within waypoints.

UW Orbital   September 2022 – Present
Command & Data Handling Member
- Developing core software components in C using FreeRTOS Kernel, used to manage telemetry and system health data.

Team 7735 - FIRST Robotics Canada   September 2019 – June 2022
Competitor, Coding Team Lead
- Reached the quarterfinals of Infinite Recharge 2020, collaborating with coding team members to develop robot using Java and FRC robotics library.
- Raised over $11,000 to compete at Rapid React 2022 by co-organizing community-wide sponsorship campaign to fundraise and promote robotics team.

Projects

Source code of projects available through links or GitHub above.

Credictor | React, CSS, JavaScript, Python, Flask   December 2022
github.com/jeessh/Credictor
- Developed and implemented user-friendly website in collaboration with 2 other students, predicting if user is eligible to apply for credit cards, given provided information.
- Integrated frontend and backend with REST API using Flask, allowing data communication between user form and model.

Troki | React, CSS, JavaScript, Node.js, Express, MongoDB   September 2021
devpost.com/software/troki
- Collaborated in team of 4 at HackTheNorth 2021, designing Uber clone web application using MERN stack, connecting clients and odd-job workers.
- Implemented Google Maps API to allow workers to locate job destination.
- Built login page frontend, integrating to backend system using Node.js and MongoDB.

Google Forms Raffle | JavaScript, Apps Script   October 2021
github.com/jeessh/Google-Form-Raffle-Entries
- Programmed google form script using Apps Script platform for Student Council Club Fair, facilitating online raffle system for 1000+ attendees.
- Extended to allow data communication between google forms and unlinked spreadsheets.

Education

University of Waterloo   Waterloo, ON
- Candidate for Honours Bachelor of Computer Science   September 2022 – May 2027
- Awards: H & M.A. Harris Ent. Scholarship, President's Scholarship of Distinction