

# Jesse Huang

1B Honours Computer Science

jeessh.site | Student ID: 21002531

linkedin.com/huang-jesse | github.com/jeessh | jesshuang5733@gmail.com

## Skills & Interests

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**Languages:** 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

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### 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

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*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

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### 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