Celine Chung

(647) 216 - 9368 || GitHub || Website

SKILLS

Languages: C++, Python, Javascript, HTML, CSS
Frameworks and Libraries: ReactJS, Material-UI, Sass CSS, Pandas, MatPlotLib, Numpy, OpenFrameworks
Related Skills: Git, AutoCAD, Fusion360, Microsoft Office (Excel, Powerpoint), Arduino

EXPERIENCE

Test Automation Intern January 2023 - Present
Ford Motor Company

- Write automated test scripts in Python to integrate Google and Amazon Voice Assistant API into Android interface.
- Developed modular testing framework and API using Slash and Selenium to increase test validation speed by 40+%.
- Contributed to 8 custom libraries for Google Cloud, voice, and media automation and validation
- Wrote 10+ integration and unit test cases to catch 20+ bugs.

Embedded Software Developer March 2023 - Present
Waterloo Aerial Robotics Group

- Developed SPI communication and PWM motor control algorithm in Embedded C/C++.

Outreach Ambassador January 2019 - Present
Stem Fellowship

- Develop marketing campaigns and 10+ articles to spread STEM news and organizations
- Co-lead in a webinar designed to teach students how to conduct a scientific research project, resulting in 50+ students directing their own personal projects, and an outreach of 400+ students

PROJECTS

Wayward Aquarium | Github | Demo

- Full-Stack marine zoology web app with 141 species of marine animals in 6 categories.
- Responsive UI with liking, disliking, and 3 forms of search features.
- Built web-scraper and used Google Search API to create custom REST API
- Used MongoDB, Express, Node.JS Backend, ReactJS, Surge and Google Cloud hosting

Emotional Cardiogram (Team of Four) | Github

- Convolutional Neural Network model which was trained over 24,000 images and recognizes up to 5 emotions.
- Arduino Model which detects a user's heart rate every 4 seconds.
- Full-Stack Application which collects and visualizes data from both the Arduino and Computer Vision model
- Used Python, OpenCV, C++, ReactJS, CanvasJS, NodeJS, and Express.

CIFAR-10 Image Classifier | Github

- Convolution Neural Network Model which classifies images from 10 categories with an accuracy of 75%.
- Visualized validation data and related predictions to classify similar categories
- Used Python, Scikit-Learn, PyTorch, MatPlotLib, Seaborn

EDUCATION

University of Waterloo, Candidate for Basc. in Mechatronics Engineering 2022-2027

- **Grade:** 94% (4.00 GPA)
- **Awards:** Dean's Honour List, President's Scholarship of Distinction