

Tiffany Chieu

Contact

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Technical Skills

Programming Languages:

C/C++, Rust, Go, Python, Java, HTML/CSS/JavaScript

Other:

OpenCV, React, nodeJS, Git

Interests

- Computer vision
- Embedded software
- CubeSat development
- Machine learning
- Robotics
- Flute and piano

Awards

Best IoT That Incorporates Multiple Nodes
SD Hacks 2019 | UCSD

Best Use of Taboola Trends API
LA Hacks 2019 | UCLA

ABRSM Certificate for Piano Grade 8
2016

Education

University of California, Los Angeles **Sept 2019 - Jul 2023**
Los Angeles, CA
B.S. in Computer Science and Engineering | Degree expected 2023
Major GPA: 4.0, Cumulative GPA: 3.92

Experience

Software Developer **Sept 2021 - Present**

Unmanned Aerial Systems, IEEE UAV Competition | UCLA

- Using OpenCV to estimate the optical flow perceived by an aerial vehicle to track the relative motion of multiple ground vehicles

Software Engineer **May 2021 - Present**

Bruin Spacecraft Group, Project Rapid | UCLA

- Develops flight software for CubeSats using JPL's F' framework, as part of the Command and Data Handling team

Lead Software Engineer **Oct 2020 - May 2021**

Bruin Spacecraft Group, Project Reach | UCLA

- Managed a team of 10 students to develop CubeSat flight software
- Restructured monolithic data packet schema into discrete, encoded packets containing all data collected from a sensor at a given time
- Added decoding logic for the data packets

Backend Developer **Apr 2020 - Sept 2020**

DevX, BConnect | UCLA

- Restructured database schema to remove redundancies and increase efficiency of database queries
- Improved error handling and expanded test coverage

K-12 Tutor **Jan 2018 - Present**

Los Angeles, CA

- Tutors students in computer science, mathematics, English grammar and writing, and AP coursework

Projects

imgproc-rs **Dec 2020 - Present**

A Rust Image Processing Library

- Supports most common image operations (including linear filtering through convolution; median, bilateral, and alpha-trimmed mean filters)
- Provides a flexible, concise image container
- Supports multithreading
- Currently working on adding SIMD support