

# Nathan Lam

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## EXPERIENCE

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### Caltech Summer Research Connection

Intern

**Pasadena, California**

*June 2023 - August 2023*

- Collaborated with 2 other interns under the guidance of a mentor to assist a research group in the astronomy/astrophysics department by developing code to filter and sort data collected by the new infrared telescope WINTER (Wide-field Infrared Transient Explorer).
- Utilized the Astropy Python library alongside Jupyter Notebooks to develop and test code.
- Presented our work to other research groups at the end of the program.

### 28% Newsletter

Primary Developer

**Pasadena, California**

*January 2022 - May 2022*

- Collaborated with 3 other students to design a website for the 28% Newsletter Club of Pasadena High School. Focused primarily on the functionality and back-end development of the website. The club now uses the website to host their monthly newsletters.
- Assisted other teammates with client interaction, research into the target audience, web design, and usability testing.

### Team IFC #15157

Vice President, Lead Fabricator, Lead 3D Designer

**Pasadena, California**

*January 2020 - Present*

- Led fabrication efforts for designing a robot for annual tournaments hosted by *FIRST* (For Inspiration and Recognition of Science and Technology), known as FTC (FIRST Tech Challenge).
- Responsible for utilizing the CAD software Fusion 360 to plan the robot's fabrication and document our design process.
- Assisted with other team branches (in order of contribution), such as documentation, outreach, programming, and fundraising.
- As a team, won 1st place Design Award (2020, 2021), 3rd place Connect Award (2021), and 2nd place Control Award (2021).
- Helped mentor a rookie team at Sierra Madre Middle School in fabrication and in creating the Engineering Portfolio.

## EDUCATION

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### Pasadena High School - Class of 2024

GPA (weighted) - 4.54; Class Rank - 10 of 323

Student of APP Academy (4 yr. Computer Science Career Pathway)

**Pasadena, California**

*August 2020 - Present*

### Tzu Chi Chinese School (Hosted at Clifton Middle School)

Completed all 12 grades of Chinese curriculum.

**Monrovia, California**

*2012 - 2022*

## **ADDITIONAL SKILLS**

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- Computer Science/Web Design - knowledge of coding languages Python, Javascript, and HTML/CSS; knowledge of GitHub, Kaggle, and Jupyter Notebook
- Graphic Design - knowledge of Pixlr
- 3D Design - knowledge of Fusion 360 and Blender
- Music Software - proficient with MuseScore 4 and AnthemScore
- Audio Software - knowledge of Audacity
- Piano - CM Level Advanced of the MTAC (Music Teachers' Association of California) system
- Fluent in English, proficient in Mandarin and Cantonese