

Eric Lee

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EDUCATION

California Institute of Technology

Computer Science B.S., Applied Computational Mathematics Minor

Pasadena, CA

Sep 2022 – Present

Corona del Mar High School

4.44 GPA, National Merit Finalist, AP Scholar with Distinction

Newport Beach, CA

Sep 2018 – Jun 2022

EXPERIENCE

LATTICE Scholar

California Institute of Technology

Pasadena, CA

Aug 2022 – Present

- Competed in the NASA Big Idea Challenge
- Worked on a self-deploying distributed aerial cableway to pass extreme lunar terrain
- Supervised by NASA JPL engineers Dr. Soon-Jo Chung and Dr. Charles Elachi (Fmr. JPL Director)
- Focused on C++ development and assembly

Undergraduate Lab Research

University of California, Irvine, Allard Lab

Irvine, CA

Jun 2020 – Mar 2021

- Performed computational biology research under the mentorship of Dr. Jun Allard
- Simulated CD8+ T-Cells to calculate the risk of cytokine storms caused by foreign substances
- OC Science and Engineering Fair, Second Place in Computational Biology
- California Science and Engineering Fair, Honorable Mention in Computational Systems & Analysis
- Utilized Python, Docker, C++, IBAMR, and VisIt

Academic Instructor

Ardent Academy | Private Tutor

Irvine, CA

Sep 2019 – Present

- Worked as a teacher assistant at the Ardent Academy for Gifted Youth
- Taught AMC 8 and competition level math
- Worked on common core math and computer science with international students

AWARDS

Amazon Future Engineer

One of 250 to receive \$40,000 Scholarship and SWE internship at Amazon

Amazon

2022

Edison Scholar

One of 40 to receive \$40,000 Scholarship

Southern California Edison

2022

President's Volunteer Service Award, Gold

250+ hours/year with STEAM for All, a nonprofit educating underserved youth

PVSA

2017 – 2022

PROJECTS

<https://beave.red> | *React, TypeScript, Git*

Aug 2022 – Present

- Open source course exploration and scheduling tool for Caltech students
- Created with Rahul Chalamala and Zachary Huang at Caltech

Cluster AI | *Fullstack, sklearn, numpy, Django, torch, three.js, SQLite*

Mar 2021 – Apr 2021

- Utilized machine learning to create an online categorizer for academic papers
- Visualizes research papers in a 3d space by semantic and content similarity
- Created for LA Hacks 2021 with 4 collaborators
- <https://github.com/northeastern-projects/LAHacks-2021>

SKILLS

Languages: Python, Java, C/C++, TypeScript, Go, HTML/CSS, L^AT_EX, MATLAB

Frameworks: React, Node.js, Flask

Tools: Git, Docker, Neo/vim, OpenOffice, Photoshop

Libraries: Pandas, Numpy, Matplotlib

Languages: English, Korean, Conversational Mandarin