Eric Lee

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EDUCATION

California Institute of Technology   Pasadena, CA
Computer Science B.S., Applied Computational Mathematics Minor   *Sep 2022 – Present*

Corona del Mar High School   Newport Beach, CA
4.44 GPA, National Merit Finalist, AP Scholar with Distinction   *Sep 2018 – Jun 2022*

EXPERIENCE

LATTICE Scholar   Pasadena, CA
California Institute of Technology   *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
- Paper on NASA.org, Demo Video

Undergraduate Lab Research   Irvine, CA
University of California, Irvine, Allard Lab   *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   Irvine, CA
Ardent Academy | Private Tutor   *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   Amazon
One of 250 to receive $40,000 Scholarship and SWE internship at Amazon   *2022*

Edison Scholar   Southern California Edison
One of 40 to receive $40,000 Scholarship   *2022*

President's Volunteer Service Award, Gold   PVSA
250+ hours/year with STEAM for All, a nonprofit educating underserved youth   *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, LaTeX, MATLAB
Frameworks: React, Node.js, Flask
Tools: Git, Docker, Neo/vim, OpenOffice, Photoshop
Libraries: Pandas, Numpy, Matplotlib
Languages: English, Korean, Conversational Mandarin