

Aimee Co

Claremont, CA | (626)-225-6157 | aco@g.hmc.edu | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Education

Harvey Mudd College, Claremont, CA

Bachelors of Science in Computer Science and Mathematics

Pomona College, Claremont, CA

Taipei American School, Taipei, Taiwan
IB Diploma

Expected Graduation: May 2026

GPA: 3.74/4.0

Aug 2022 - May 2024

May 2022

GPA: 3.92/4.0

Skills

Programming languages: Python, C++, Java, SQL, JavaScript, HTML, CSS, R, LaTeX

Tools: Git, ReactJS, Scikit-Learn, TensorFlow, Keras, Hugging Face, Docker, AWS, Google Cloud, PostgreSQL

Languages: English (native), Mandarin (professional)

Experience

Incoming Software Development Engineering Intern, Amazon

Jun 2025 - Aug 2025

- STORES Team

Engineering Team Lead, 5C Hack

Sep 2024 - Apr 2025

- Co-leading 4 person team to create dynamic website for 2025 Claremont Colleges Hackathon using ReactJS and deploying through Vercel

Machine Learning and Software Intern, Dasion

May 2024 - Dec 2024

- Leading a 4 person team to develop an AI-enhanced EMR platform for healthcare providers integrated with the SMART Health system, including CNNs for diagnosis, drug administration, and risk prediction trained on MIMIC III data through BigQuery
- Developed backend functionalities to enhance the peer review process by integrating and training LLaMA3 and GPT-4o models to automate peer review comments, paper revision, and scoring with justifications
- Represented Dasion at West Coast Symposium for Addictive Disorders to showcase AI-driven healthcare solutions

Teaching Assistant - Computing for the Web, Claremont McKenna College

Aug 2024 - Dec 2024

- Assisting students in learning Python, HTML, and CSS to create their own web apps

Project Head, p-Newspaper, P-AI

Feb 2024 - May 2024

- Led the development of a web app to reduce user bias by delivering personalized news from wide array of news sources by leveraging open-ended user input using ReactJS, Flask, Docker, and Google OAuth for user sign on
- Implemented TSVector in PostgreSQL to narrow down search results within DB and GPT-4 for interpreting user inputs to curate most relevant results to increase query efficiency
- Engineered AWS Lambda function with Cloudwatch to scrape news sites at 12 hour intervals and store news in DB

Lead Frontend Developer, p-Geolocation, P-AI

Sep 2023 - Dec 2023

- Created web app to output a user's location with error range on Google Maps given two pictures of the sun
- Led front-end web development with ReactJS and Google Maps API to create interactive Google Map with movable marker on a multi-page website

5C Datathon, 1st place, Claremont Colleges

Oct 2023

- Collaborated on a 2-person team to win 1st out of 30 teams at the 5C Datathon (Claremont Colleges) sponsored by Google, Bloomberg, and Major League Hacking
- Highest AUROC score by applying XGBoost on over 600,000 airplane delay data points with Scikit-Learn

Projects and Research

Spatial Analysis of Segregation and Air Quality

Jun 2024 - Present

- Co-authoring a paper on segregation indices by analyzing spatial/aspatial segregation patterns using geographic data
- Applying batch processing to explore correlations between population distribution and air quality

Lung Cancer Detection CNN

May 2024

- Developed a CNN using TensorFlow Keras, achieving 0.85 accuracy in detecting lung cancer from histopathology images, with potential to generalize to other cancers.

Duolingo half-life regression analysis

Feb 2024 - March 2024

- Implemented the half-life regression model to analyze a dataset of 13 million Duolingo learning sessions to estimate the forgetting curve from user data, enhancing insights into effective language learning strategies

Business, personal, Hackathon websites

2023 - 2024

- Developed a dynamic business website (Musico) with client-side communication using ReactJS and EmailJS.
- Engineered an interactive interface for Pomona College's room draw system, integrating backend services and Firebase for streamlined user experience, allowing students to pre-select rooms based on draw time, view floor plans, select room/suite-mates on one website

Activities: Lifeguard, Pomona College Orchestra concertmaster, snowboarding, scuba diving, soccer, bookbinding

Citizenship: Dual (United States, Taiwan)