ALYSSA SAWYER

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EDUCATION

Harvey Mudd College   May 2026
*Bachelor of Science in **Computer Science and Math** Major GPA: 3.8/4.0*
 – **Relevant Coursework:** Principles of Computer Science, and Introduction to Computer Science

Sequoia High School   August 2018 - June 2022
International Baccalaureate Diploma, Honor Roll (GPA: 4.45/4.0, CA Scholarship Federation Life Member)

College of San Mateo, Cañada College, Skyline College, and Foothill College   August 2019 - June 2022
Dual Enrollment Program
 – **Relevant Coursework:** Analytical Geometry/Calculus III, Linear Algebra, Differential Equations, Intro to Object-Oriented
   Program Design, Programming Methods: Java, Python Programming, Introduction to Web Design, Ethical Hacking, JavaScript for
   Programmers, and Spreadsheets.

EXPERIENCE

Claremont McKenna College   May 2023 - Present
Machine Learning Researcher
 – Presented paper at the 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining's Data Science Day.
 – Fine-tuned OpenAI's Davinci model utilizing its API and generated training set of synthetic questions.
 – Decreased API usage cost by 70x in the pipeline to compare baseline OpenAI and LLaMA's Latin performance compared to our
   models through calculating the lowest perplexity option of multiple choice quiz questions. Graphed results with Matplotlib.

Project AI   September 2022 - Present
Project Manager and Member
 – Managing and teaching 4+ students for my computer vision project, training an image classification model using PyTorch.
 – Used black box optimization with fmin in Javascript and Pokemon Showdown API to reverse engineer information in a battle.

Claremont Graduate University   January 2023 - Present
Frontend Web Developer
 – Programming an interactive data visualization website for the CGU Cultural Property Disputes Resource using D3.js.
 – Providing a resource for lawyers, journalists, and scholars to track information regarding 400+ cases of stolen artifacts.

SambaTV   January 2023 - May 2023
Software Engineer Intern
 – Created a synthetic data set by naturally integrating generating scenes to create 500k+ images using the COCO API.
 – Generated logo placement using Python in Blender. These pictures are intended to be released as an open source
   database.

Harvey Mudd College   September 2022 - May 2023
Computer Science Researcher
 – Developed a wearable device that vibrates northward for a sensory augmentation experiment using Arduino.
 – Integrated the device into a Pitzer College philosophy class to improve student learning with an interactive element.

California State Senate   August 2021 - March 2022
AI Research Intern
 – Summarized and discussed research briefs about AI's effect on labor and tech education to inform State Senate policy.

PROJECTS

Tutoring Assignments | Used pandas and sendemail to automatically send out personal pairing emails for tutoring programs.
Thoughtful Discord Bot | Sends a message from the Shower Thoughts Subreddit with the PRAW module and Discord Dev Tools.
First To Register | Programmed notification system for standardized testing registration opening using selenium and schedule library.

AWARDS

Harvey S. Mudd Scholar | *Recieved merit award due to being identified as in the top 2% of the applicant pool.*
Top 4 Debater in the Country | *Placed in the top 4 at Nationals, after qualifying out of 20,000+ Lincoln-Douglas debaters nationwide.*
300+ Total Volunteer Hours | *At 30+ organizations through the National Charity League. Received Presidential Bronze Volunteer Award.*

SKILLS

Languages: Java, Python, C++, Javascript, HTML, CSS, R, LaTeX