

# ALYSSA SAWYER

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## EDUCATION

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### Harvey Mudd College

May 2026

*Bachelor of Science in Computer Science and Math Major GPA: 3.8/4.0*

- **Relevant Coursework:** Discrete Mathematics, Data Structures/Program Development, 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

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### Claremont McKenna

May 2023 - Present

*Machine Learning Researcher*

- Fine tuned OpenAI's Davinci model utilizing its API on a training set of generated synthetic questions.
- Created pipeline to evaluate and compare OpenAI and LLaMA's Latin performance through calculating and scoring the perplexity of each quiz sentence, graphing results using Matplotlib.
- Paper accepted to the 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining's Data Science Day.

### 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. Planning to release the pictures as an open source database.

### Harvey Mudd

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.

### Project AI

September 2022 - January 2023

*Software Engineering Member*

- Creating a Pokémon battler AI utilizing the Pokémon Showdown API. Researched approaches to determine strategy.
- Utilized black box optimization through the fmin Javascript library to reverse engineer the unknown stats of an enemy.

### Coast Forensics League

March 2019 - May 2022

*Data Analysis Intern*

- Analyzed data of 60+ schools to determine debate tournament attendance, topic bias, and other trends in Excel.

### 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.

## AWARDS

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**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.

## SKILLS

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**Languages:** Java, Python, C++, HTML/CSS, R,  $\text{\LaTeX}$