Angelina Tsai

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EDUCATION

Harvey Mudd College — Claremont, CA *August 2022- May 2026*
B.S. Computer Science and Physics | Emphasis in Data Science **Dean's List** | GPA: 3.4/4.0
Relevant coursework: Computer Systems, Data Structures and Program Development, Mathematical and Computational Methods, Quantum Physics, Electromagnetic Theory and Optics, Differential Equations, Discrete Mathematics, Linear Algebra, Mechanics and Wave Motion

SKILLS

Languages: English, Chinese (Mandarin)
Programming Languages: Python, Java, C++, MySQL, JavaScript, React, HTML, CSS, Racket
Software: OriginLab, PPMS MultiVu, Microsoft Suite, Google Suite, Adobe Photoshop
Other: Data Visualization, Statistical Analysis, Public Relations, Social Media Management

WORK EXPERIENCE

Web Development/Data Processing Internship Jun. 2023 – Aug. 2023
Axient Corp. (Project SES III– GLOBE Observer)

· Designed a web scraping program to enable users to access previously inaccessible data, improving user interface and data availability. Publication: Improving the My Observations Page with Satellite Match Links and More
· Manipulated data and automated Excel tasks using Python pandas library, reading, sorting, and combining spreadsheets to provide desired data to the GLOBE API. Resolved website design issues where elements would disappear when page resolution changed to ultimately improve accessibility, clarity, and user experience.

Student Researcher June 2024 – Present
Magnetic Thin Films Labs, Harvey Mudd College Claremont, CA

· Collected data for iron rhodium (FeRh) samples with various platings and orientations from clients at UCSD, utilizing Quantum Design equipment (PPMS, VSMs) for precise data acquisition.
· Analyzed data using Fourier transforms and visualized results using OriginLab, presented visualized data and key findings to clients, ensuring effective communication of the impact of capping layers (Pt and SiN) on AMR phenomena.

Social Media and Communications Part-Time Intern Nov. 2021 – May 2024
Science Systems and Applications, Inc.(SSAI)—Axient Corp.

· Produced and edited social content. Conducted statistical analysis of social media metrics and presented the findings to team members and management.
· Summarized monthly social media efforts in reports to be shared with team members, supervisors, and peers in other organizations. Documented large teleconference meetings to accurately report discussed content.

PROJECTS

Sentiment Analysis Reddit Trading Bot- Developed an automated trading bot leveraging sentiment analysis of Reddit comments and posts to make trading decisions. Implemented a Python web scraper, storing Reddit data and corresponding sentiment scores in a MySQL database, ensuring efficient retrieval and storage.
p-AI Project Member (p-Newspaper)- Collaborated with a team to create a personalized news website, incorporating a database using AWS services for efficient storage and retrieval of news articles. Developed a ChatGPT-based news fetch API to retrieve news articles based on user prompts and inputs.

EXTRACURRICULARS

CMS Women's Water Polo- Goalkeeper competing for Claremont Mudd Scripps' D3 NCAA Water Polo team. Awarded Superior All-Academic designation by the Association of Collegiate Water Polo Coaches (ACWPC).
Asian Pacific Islander Sponsorship Program at Mudd (APISPAM)- Head sponsor for Asian Pacific Islander affinity group at Harvey Mudd College.
Administrative Assistant (Volunteer Position)- Assisted on projects, such as reports, expository writing, and inspection of ARK's website. Accounted for monthly donations and transactions.