

Rachel Xiao

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EDUCATION

University of California, Berkeley | College of Engineering

May 2025

B.S. in Electrical Engineering and Computer Sciences

GPA: 3.96

Relevant Coursework: Data Structures & Algorithms, Computer Architecture, Discrete Math & Probability

WORK EXPERIENCE & FELLOWSHIPS

MullenLowe Group

June 2023 - August 2023

Information Technology Intern

New York, NY

- Used Java to pull Vantage data through APIs, write them into SQL databases, and organize data on Logi Analytics web apps to visualize reports for prospective costs in relation to budgets to assist client financial decisions
- Led a ticketing system to progress and teach the phases of Scrum to a team of 10 for developing technical changes
- Standardized testing and requirements documentation for HR APIs and web app request forms to increase transparency about projects and improve the process of transferring projects throughout the IT department

Academic Atlas

June 2023 - August 2023

Software Engineering Intern

Remote

- Used BeautifulSoup library to scrape websites and organize data in CSV files about 500+ pre-collegiate programs
- Segmented 400,000 emails with Python to facilitate communication of education programs to interested parties

Major League Hacking

February 2023 - April 2023

Site Reliability Engineering Fellow

Remote

- Built a portfolio using Flask and Jinja and completed a curriculum covering site reliability production engineering
- Automated testing and deployment workflows to Digital Ocean with CI/CD in GitHub Actions and bash scripting

Stuyvesant Google Mentorship Program

March 2022 - June 2022

Project Developer

New York, NY

- Created a program that classifies posture from users' webcam data based on identified correlations in Matplotlib
- Used TensorFlow Posenet Model, TensorFlow Hub, OpenCV, and cosine similarity to compare ideal/bad postures

LEADERSHIP EXPERIENCE & ACTIVITIES

Berkeley ANova

September 2023 - Present

Mentor

Berkeley, CA

- Introduce computer science concepts through hands-on projects and labs to local under-resourced middle schools

UC Berkeley Electrical Engineering & Computer Sciences

January 2023 - May 2023

Structure & Interpretation of Computer Programs Academic Intern

Berkeley, CA

- Assisted 40 students during weekly Python lab sections and presented mini-lectures on recursion, OOP, SQL, etc.
- Facilitated weekly problem set sessions and office hours about introductory Python course material for 15 students

Stuyvesant Girls Who Code

September 2019 - June 2022

President

New York, NY

- Managed a leadership board of 17 people and taught 40+ young women about web development, Python, and cybersecurity by creating lessons, developing a curriculum, facilitating project work, and organizing career panels

PROJECTS

Journalify

- Built a web app at Cal Hacks hackathon and trained a Cohere NLP model to classify emotions of journal entries
- Used Flask, Jinja, and SQL to create a digital journal that associates emotion of entries with Spotify's API's songs

Personal Library

- Used APIs, SQL, Flask, and Bootstrap in a web app that can search for details and store data about books/movies

Space Invaders

- Used skills in Java and object-oriented programming to rebuild a GUI in Processing for the game Space Invaders

SKILLS & LANGUAGES

Programming Languages: Python, Java, C, SQL, HTML, CSS

Technologies: Git, Flask, Jinja, MongoDB, VSCode, IntelliJ, Azure, Eclipse