Rachel Xiao

(347) 827-9052 | rachel.xiao@berkeley.edu | rachelxiao907.github.io | linkedin.com/in/rachelxiao04

EDUCATION

University of California, Berkeley | College of Engineering　　　　　　　　　**May 2026**
B.S. in Electrical Engineering and Computer Sciences　　　　　　　　　　　　　*GPA: 3.91*
Relevant Courses: Data Structures & Algorithms, Efficient Algorithms & Intractable Problems, Computer Security
Awards/Honors: Dean's List, Eta Kappa Nu (National Electrical and Computer Engineering Honor Society)

WORK EXPERIENCE & FELLOWSHIPS

Nextdoor　　　　　　　　　　　　　　　　　　　　　　　**May 2024 - August 2024**
Software Engineer Intern　　　　　　　　　　　　　　　　　　　　　　*New York, NY*
- Built code parsing and modification tools with LibCST and GritQL to clean up 100s of rolled out feature flags by converting network calls to static values which decreases latency and improves performance of the app
- Created a scheduled job in CircleCI to continuously delete 1000s of lines of code with low engineering effort
- Accelerated a seamless deployment process by automating a scalable way to streamline past experiment usages

D. E. Shaw Discovery　　　　　　　　　　　　　　　　　　　　　　**January 2024**
Fellow　　　　　　　　　　　　　　　　　　　　　　　　　　　　*New York, NY*
- 1 of 47 selected to participate in educational opportunities that provide exposure to what D. E. Shaw does as a hedge fund. Engaged in interactive case studies, seminars led by visiting professors, and sessions with their staff.

MullenLowe Group　　　　　　　　　　　　　　　　　　**June 2023 - August 2023**
Information Technology Intern　　　　　　　　　　　　　　　　　　　　*New York, NY*
- Leveraged internal APIs to visualize prospective costs in relation to budgets to assist client financial decisions
- Spearheaded a ticketing system to facilitate the phases of Scrum to a team of 10 for developing technical changes
- Standardized testing and documentation for APIs and request forms to improve the process of transferring projects

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

LEADERSHIP EXPERIENCE & ACTIVITIES

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

Secure File Sharing System
- Ensure data integrity and confidentiality by applying IND-CPA secure algorithms, MACs, Hash SHA-512, digital signatures, asymmetric encryption, and symmetric encryption throughout the database to store, load, and share files

Journalify
- Built a web app at Cal Hacks hackathon and fine tuned 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

Ergomax
- Developed a program to classify good/bad posture with TensorFlow Posenet Model, OpenCV, and cosine similarity

Personal Library
- Developed a web app searches for details and stores data about books/movies with APIs, SQL, Flask, Bootstrap

SKILLS & LANGUAGES

Programming Languages: Python, Java, SQL, C, Go, Django, GraphQL, JavaScript, HTML, CSS, Bash
Technologies: Git, Flask, Jinja, AWS, LangChain, MongoDB, Streamlit