Sophia Qin

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Education

University of California, Berkeley   **Aug 2017 – May 2021**

B.S. Electrical Engineering and Computer Science
- **Relevant Coursework** — Data Structures, Algorithms, Discrete Mathematics and Probability, Artificial Intelligence*, Linear Algebra, Intro to Database Systems*, Foundations of Data Science, Web Design* (* *In progress*)
- **Organizations** — Cal Hacks, Society of Women Engineers, AWE, Rewriting the Code, Google Women Techmakers

Skills — Java, Python, JUnit Testing, NumPy, SQL, HTML, CSS, JavaScript, Microsoft Office, Adobe Photoshop

Experience

Microsoft — Explore Intern (Software Engineering/Program Management)   **May 2019 – Aug 2019**
- Designed and implemented a new LOB application for the Azure Information Protection platform using Python, PowerApps, HTML, and JavaScript
- Drove feature prioritization, development, and strategy through close collaboration with engineering and product teams and conducted a competitive analysis for a potential new business feature

UC Berkeley EECS Department — Teaching Assistant for Programming Fundamentals   **Jan 2018 – Present**
- Lead weekly lab and discussion section for 35 students, designing curriculum for new Data Science Major
- Taught higher-order functions, recursion and data structures, object-oriented programming in Python

Cal Hacks — Diversity Director   **Jan 2018 – Jan 2019**
- Organized nation's largest collegiate hackathon for 2300+ attendees through industrial relations at UC Berkeley
- Spearheaded Cubstart, a 3-week program with mentors, workshops, and resources for over 90 first-time hackers

Coding Together — Founder, Teaching Instructor   **May 2017 – July 2018**
- Taught and developed CS curriculum to a class of 60 students with lectures and projects on Scratch, CAD, and robot programming; sponsored by the National Center of Women & IT (NCWIT) and 25 tech companies

Dos Pueblos Engineering Academy — Software Development Intern   **Aug 2016 – June 2017**
- Designed and implemented UI for kiosks from concept to successful installation at Maker Faire and Moxi Science Museum, accessed by 10K users in Python and JavaScript

Projects

8lobal, Google CodeU   **May 2019**
- Created and deployed a web application for 130 participants using Java, JavaScript, HTML, and CSS over the course of 10 weeks, leveraging various Google Cloud Platform APIs, including App Engine and Datastore
- Implemented editing messages feature and created dynamic visualizations using Java and conducted code reviews

BearMaps   **April 2018**
- Programmed the back-end of a web mapping application of Berkeley, CA that supported features such as image rastering at different zoom levels, autocomplete location search, and route mapping

Electronic Trading Bot   **Jan 2019**
- Built an algorithmic trading bot in Python that makes use of ETF and ADR arbitrage, scalping, and bonds to trade financial assets on Jane Street's 2019 Electronic Trading Challenge

Awards — Jane Street Insight Software Developer Participant, MongoDB Women in CS Summit Attendee, Coca Cola Scholar (Top 0.1% of 150,000 Applicants), NCWIT: National Aspirations in Computing Award, Rewriting the Code Fellow, Harriet Miller Leadership Award, UC Berkeley Leadership Scholarship, James Bartlett Jr. Engineering Award