

Laryn Qi

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EDUCATION

University of California, Berkeley

M.S. Electrical Engineering and Computer Science

May 2024

- **Research:** Machine Learning for CS Education

University of California, Berkeley

GPA: 3.82/4.00

B.A. Computer Science, B.A. Music

May 2023

- **Courses:** Combinatorial Algorithms & Data Structures (Graduate), Randomized Algorithms, Computability & Complexity Theory, Programming Languages & Compilers, Machine Learning, Data Science, Operating Systems, Security, Computer Architecture, Probability & Random Processes, Linear Algebra, Discrete Math, Signals & Circuits
- **Honors:** Upsilon Pi Epsilon (UPE) CS Honor Society, College of Letters & Science Honors 2020-2021

EXPERIENCE

UC Berkeley EECS Department

Berkeley, CA

Lecturer – CS 61A The Structure and Interpretation of Computer Programs

June 2022 – August 2022

- Gave lectures, wrote exams, and hired staff of **25+** TAs/tutors and **50+** academic interns for class of **400+** students
- Taught abstraction, recursion, OOP, trees, linked lists, complexity, and interpreters in Python, Scheme, and SQL

Amazon

Seattle, WA

Software Development Engineer Intern – Threat Intelligence

May 2021 – August 2021

- Built intelligence collection service to improve threat discoverability via fast searching through large datasets
- Resulted in **30%** improvement in Analyst efficiency, saving **300** person-hours a month at a cost of less than **\$2/hour**
- Used serverless AWS infrastructure to implement a scalable, cost-efficient, fault-tolerant, extensible, and secure system

San Francisco Conservatory of Music (SFCM)

San Francisco, CA

Contract Project Manager

May 2022 - January 2023

- Built a dashboard for SFCM to help with concert planning and increase turnout by displaying historical data
- Trained **6** developers with no web experience to build a full-stack web app using React, Express, and PostgreSQL

Mothership

Austin, TX (Remote)

Contract Project Manager

December 2021 – May 2022

- Sourced & specced data science/backend project to serve carrier supply & shipment demand density in metro areas
- Led **6** developers through system architecture research, design doc, data analysis, service deployment, and testing
- Created ramp-up project & organized weekly syncs, worksessions, retros, check-ins, client stand-ups, and socials

UC Berkeley EECS Department

Berkeley, CA

Head TA – CS 61A The Structure and Interpretation of Computer Programs

January 2020 – Present

- Lead team of **9** Head TAs and collaborate with professors to manage **70+** general course staff members
- Hold multiple weekly discussions, labs, and office hours & maintain infrastructure/website for class of **2000+** students
- Average teaching effectiveness rating of **4.52/5.00** by students, won **Outstanding Graduate Student Instructor Award (2022)**, awarded to **top 10% of TAs university-wide**, and won **Outstanding Academic Intern Award (2020)**, awarded to **top 7% of CS 61A Spring 2020 interns**

PROJECTS

BlueConduit (Contract)

August 2021 – January 2022

- Built web app for city officials to upload & visualize water service pipeline data for finding best replacement locations
- Part of a multimillion collaboration between BlueConduit and Google.org to support lead service line replacements
- Used Django REST framework & JSON web tokens to handle user authentication and Mapbox API for visualizations

Relativity Space (Contract)

February 2021 – May 2021

- Created web app for visualizing real-time time-series data streaming from sensors on rockets into InfluxDB
- Built APIs, sockets, React dashboards, D3 graphs with custom absolute/relative timeranges & multiple data streams
- Emphasized improved performance over Grafana through backend data caching and shared global state in frontend

ok-disc | github.com/LarynQi/ok-disc/

July 2020 – January 2021

- A lightweight Python autograder to help students debug Python, Scheme, and SQL code during virtual discussions
- Simple CLI for running test cases and displaying expected & actual output with support for multiple languages
- Used by **330+** UC Berkeley intro CS students through Computer Science Mentors, a tutoring student organization

SKILLS

Languages: Python, Java, C, SQL, Go, (Java/Type)Script, OCaml, LaTeX, Assembly, Lisp, HTML/CSS

Tools & Frameworks: Git, AWS, GCP, Unix, Linux, Docker, Heroku, MongoDB, InfluxDB, React, Vue, Express, Flask, Django, pandas, NumPy, Matplot