LARYN QI

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EDUCATION

University of California, Berkeley — **GPA: 3.80/4.0**
B.A. Computer Science, B.A. Music | Upsilon Pi Epsilon (CS Honor Society) — May 2023
Relevant Coursework: Data Structures · Algorithms · Operating Systems · Comp. Architecture · Security · PL & Compilers · CS Theory · Data Sci. · VR Dev. · Lin. Alg. · Discrete Math & Probability · Random Processes · ML for Music · Signals & Circuits

EXPERIENCE

UC Berkeley EECS Instructor — **Berkeley, CA**
CS 61A Lecturer – https://inst.eecs.berkeley.edu/~cs61a/su22/ — _June 2022 - August 2022_
- Delivered lectures, wrote exams, and hired & managed staff of 25+ TAs and Tutors and 50+ academic interns for class of 400+ students
- Taught CS fundamentals: abstraction, recursion, OOP, mutability, trees, linked lists, complexity, interpreters in Python, Scheme, and SQL

Amazon — **Seattle, WA**
Software Development Engineer Intern, L4 (Threat Intelligence) — _May 2021 - August 2021_
- Built an intelligence collection service to improve threat discoverability and Analyst efficiency via fast searching through large datasets
- Resulted in 30% improvement in the team's Analysts' efficiency, saving 300 person-hours a month at a cost of less than $2/hour
- Utilized serverless AWS infrastructure to support a highly scalable, cost-efficient, fault-tolerant, easily extensible, and secure architecture

UC Berkeley EECS Course Staff — **Berkeley, CA**
CS 61A Head TA · CS 61A Tutor · Outstanding CS 61A Academic Intern — _January 2020 - Present_
- Managed recruitment, onboarding, weekly prep assignments, check-ins, socials, and general logistics for team of 120+ academic interns
- Held multiple weekly discussions, labs, and office hours & answered Piazza questions for introductory CS class of 2000 students
- Maintained course software & infrastructure, created & reviewed content, proctored & graded exams, managed course website

Codebase <> Mothership — **Berkeley, CA**
Project Manager — _December 2021 - May 2022_
- Sourced & specced data science/backend project for Mothership for serving carrier supply and shipment demand density in metro areas
- Led team of 6 software developers through system architecture research, design doc, data analysis, service deployment, and testing
- Created ramp-up project & organized weekly worksessions, planning meetings, retros, developer check-ins, client stand-ups, and socials

Extended Reality at Berkeley — **Berkeley, CA**
Virtual/Augmented Reality Course Instructor — _January 2020 - May 2021_
- Facilitated student-taught XR course by giving lectures, developing content, grading homeworks, supervising labs, and managing Piazza
- Held technical workshops to onboard new club members and get them up to speed on XR, Unity, and C# for project development

Code in Place — **Stanford, CA**
CS106A Section Leader — _Spring 2020, Spring 2021_
- Taught for Code in Place, a program offered by Stanford during COVID-19, with 10,000 global students and 900 volunteer teachers
- Held weekly discussions of 10-12 students in a 5-week online Python programming course based on Stanford's CS106A

PROJECTS

Codebase <> BlueConduit
Software Developer — _August 2021 - January 2022_
- Built an app for city officials to upload & visualize water service pipeline data for finding the optimal locations to replace service lines
- Part of a larger, multimillion, open source collaboration project between BlueConduit and Google.org to support lead line replacements
- Used Django REST framework & JSON web tokens to handle user authentication securely and Mapbox API for data visualization

Codebase <> Relativity Space
Software Developer — _February 2021 - May 2021_
- Created standalone web app for Relativity Space to visualize real-time time-series data streaming from sensors on rockets into InfluxDB
- Full-stack: custom API, sockets, React dashboards, D3 graphs with custom absolute and relative timeranges & multiple data streams
- Emphasized improved client and server performance over Grafana through backend data caching and shared global state in frontend

ok-disc
Software Developer — _July 2020 - January 2021_
- A lightweight Python client for students to autograde and debug their Python, Scheme, and SQL code during virtual discussion sections
- Simple CLI for running test cases and displaying expected & actual output with support for assignments in multiple languages
- Used by 330+ Berkeley intro CS students through Computer Science Mentors, a teaching/tutoring student organization at UC Berkeley

SKILLS

Languages/Frameworks: Python · Java · SQL · C · Go · Java/TypeScript · OCaml · React · Vue · HTML/CSS · Max · Assembly · Lisp
Tools: Git · AWS · GCP · Unix · Linux · Docker · Express · MongoDB · InfluxDB · Heroku · Flask · Django · pandas · NumPy · Matplot
Other: LaTeX · Mandarin (conversational) · French (conversational)