

Aaron Yu

☎ (415) 988-5515 | ✉ axyu@ucsd.edu | 📱 Auroric | 🌐 aaron-x-yu

Education

University of California, San Diego	Spring 2025
M.S. Computer Science	4.00 GPA
University of California, San Diego	Winter 2024
B.S. Computer Science	3.96 GPA

- **Regents Scholar:** scholarship awarded to **1% of UCSD students** on the basis of academic excellence

Work Experience

LinkedIn	Sunnyvale, CA
Software Engineer Intern	Jun. 2024 - Sep. 2024
<ul style="list-style-type: none">• Implemented and optimized backend gRPC endpoint for collating resume data as part of AI agent data pipeline, achieving latency reduction of 20-40% through effective parallelization of database requests.• Leveraged PySpark and Trino to process large datasets on Hadoop HDFS, deriving insights informing critical design decisions.• Researched and implemented a process for integrating analytics data into a shared dashboard, enhancing visibility of key metrics and streamlining further data onboarding by team.	
Mobile Engineer Intern	Jun. 2023 - Sep. 2023
<ul style="list-style-type: none">• Implemented upsells for new features on LinkedIn's iOS application in Swift and Objective-C towards driving increased Premium subscriptions.• Utilized GraphQL to build reusable UIKit components from API-driven content, maximizing code reuse and minimizing technical debt.	
Maxentric	San Diego, CA
Software Engineer Intern	Jun. 2022 - Sep. 2022
<ul style="list-style-type: none">• Designed and built cross-platform web, iOS, and Android app using Ionic and Capacitor frameworks in Vue.js with TypeScript to interface with medical device over Bluetooth LE and graph heart rate data in real time.• Implemented frame-check sequence in C for Wi-Fi MAC layer towards building 5G communication platform on a Xilinx FPGA.	
UCSD Computer Science and Engineering Department	San Diego, CA
Instructional Assistant	Aug. 2021 - Mar. 2023
<ul style="list-style-type: none">• Taught 500+ undergraduate students C, C++, and ARM assembly for systems programming and data structures courses.• Hosted guided lab hours and one-on-one sessions to assist students with pointers and memory management, Linux CLI, and data structures.	
Loup.ai	San Francisco, CA
Software Engineer Intern	Jul. 2021 - Sep. 2021
<ul style="list-style-type: none">• Redesigned homepage for livestreamed video shopping platform in JavaScript, HTML, and CSS to optimize conversion rate and improve usability.• Employed Django and custom Bootstrap templates to automatically populate webpages from backend PostgreSQL database.	

Projects

ZooSeeker: Automated shortest-route planner for the zoo	Mar. 2022 - Jun. 2022
<ul style="list-style-type: none">• Developed Android app to plan shortest pedestrian routes through selected exhibits at the San Diego Zoo.	
Summ: Matchmaking-based video-calling for college students	Aug. 2020 - Jul. 2021
<ul style="list-style-type: none">• Leveraged Android's Location API and JGraphT to redirect users based on their actual current location in real time.• Developed backend for matchmaking-based video-calling iOS and Android app for college students.• Tracked user feedback to improve matchmaking by writing Python interface to PostgreSQL database.• Built load-testing library employing Docker and docker-compose to test matching algorithm with simultaneous matches.	

Leadership

Association for Computing Machinery at UC San Diego	San Diego, CA
Vice President Finance	Apr. 2021 - Apr. 2022
<ul style="list-style-type: none">• Executive board member of the Association for Computing Machinery, the largest computing organization on campus with 1700+ members.• Oversaw 5-member finance team responsible for funding 100+ events each year through maintaining university and corporate sponsorships.	

Skills

Languages	Python, Java, Swift, Rust, C++, C, Objective-C, SQL (Postgres), JavaScript, TypeScript, HTML, CSS, Haskell, Go, R, Bash
Developer Tools	Git, Spark, Hadoop, Docker, Make, XCode, Postman, Google Firebase, Facebook Watchman, GDB, Valgrind
Frameworks	gRPC, GraphQL, Vue, Ionic, Capacitor, Quasar, Django, UIKit, XCTest, JUnit, Espresso, Mockito, TestNG