

Aaron Yu

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Education

University of California, San Diego

M.S. COMPUTER SCIENCE

Spring 2025

University of California, San Diego

B.S. COMPUTER SCIENCE

Winter 2024

3.96 GPA

- **Regents Scholar:** scholarship awarded to **1% of UCSD students** on the basis of academic excellence
- **Coursework:** Machine Learning, Interaction Design, Data Structures, Algorithms, Systems Design, Functional Programming

Work Experience

LinkedIn

SOFTWARE ENGINEER INTERN

Sunnyvale, CA

Jun. 2024 - Sep. 2024

- Incoming Software Engineer Intern on the Recruiter Search team.

MOBILE ENGINEER INTERN

Jun. 2023 - Sep. 2023

- 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.
- Wrote unit, layout, and scenario tests utilizing the XCTest framework in order to minimize regressions and reduce debugging time.

MaXentric

SOFTWARE ENGINEER INTERN

San Diego, CA

Jun. 2022 - Sep. 2022

- 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

INSTRUCTIONAL ASSISTANT

San Diego, CA

Aug. 2021 - Mar. 2023

- 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

SOFTWARE ENGINEER INTERN

San Francisco, CA

Jul. 2021 - Sep. 2021

- 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

- Developed Android app to plan shortest pedestrian routes through selected exhibits at the San Diego Zoo.
- Leveraged Android's **Location API** and **JGraphT** to redirect users based on their actual current location in real time.
- Built unit, integration, and systems tests in **JUnit**, **Espresso**, and **Robolectric** to validate correct behavior.

Surfn: Matchmaking-based video-calling for college students

Aug. 2020 - Jul. 2021

- 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

VICE PRESIDENT FINANCE

San Diego, CA

Apr. 2021 - Apr. 2022

- 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 events and merchandise through corporate sponsorship and internal fundraising.
- Spearheaded communication with UCSD faculty to establish internal logistics for **100+ events** each year.

Skills

Languages	Python, C++, Swift, Rust, Java, C, Objective-C, SQL (Postgres), JavaScript, TypeScript, HTML, CSS, Haskell, Verilog, R, Bash
Developer Tools	Git, Docker, Make, XCode, Postman, Charles Proxy, pgAdmin 4, Google Firebase, Facebook Watchman, GDB, TCL, Valgrind
Frameworks	UIKit, XCTest, GraphQL, Vue, Ionic, Capacitor, Quasar, Django, JUnit, Espresso, Robolectric