

# Aaron Yu

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## Education

### University of California, San Diego

3.96 GPA

B.S. COMPUTER SCIENCE

Spring 2024

B.S. COGNITIVE SCIENCE (SPECIALIZATION: DESIGN AND INTERACTION)

- **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

Sunnyvale, CA

MOBILE ENGINEER INTERN

Jun. 2023 - Present

- 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.

San Diego, CA

SOFTWARE ENGINEER INTERN

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.

San Diego, CA

### UCSD Computer Science and Engineering Department

INSTRUCTIONAL ASSISTANT

Aug. 2021 - Present

- 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, basic processor circuits, **Linux CLI**, and data structures.

San Francisco, CA

### Loup.ai

SOFTWARE ENGINEER INTERN

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 and update webpage information from back-end **PostgreSQL** database, eliminating the need for manual data entry and styling.

## 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.
- Employed **agile** development principles using **GitHub** and **ZenHub**, allowing **team of 6** to collaborate effectively.
- Built unit, integration, and systems tests in **JUnit**, **Espresso**, and **Robolectric** to validate correct behavior.

Aug. 2020 - Jul. 2021

**Surin:** Matchmaking-based video-calling for college students

- Developed backend for matchmaking-based video-calling iOS and Android app for college students.
- Employed transactions and batched writes with Google **Firestore** to allow for multi-threaded operation.
- 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 - Present

- 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.
- Raised over **\$10,000** through collaboration with university and industry partners.

## 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