

# Aaron Yu

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## Education

### University of California, San Diego

B.S. COMPUTER SCIENCE

3.96 GPA

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

- Incoming summer intern at LinkedIn. Will be working in **Swift** and **Objective-C** on improving LinkedIn's Job Search page.

### MaXentric

San Diego, CA

SOFTWARE ENGINEER INTERN

Jun. 2022 - Sep. 2022

- Designed and built hybrid web, iOS, and Android app using **ionic** and **Capacitor** frameworks in **Vue.js** with **TypeScript** to interface with medical device microcontroller over Bluetooth LE and graph electrocardiogram data in real time.
- Implemented frame check sequence in **C** for Wi-fi MAC layer on Xilinx FPGA towards building reliable 5G millimeter-wave radio platform.

### UCSD Computer Science and Engineering Department

San Diego, CA

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.

### Social Chat

San Francisco, CA

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.

### 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.
- Employed transactions and batched writes with Google **Firebase/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

<b>Languages</b>	Python, C++, Swift, Rust, Java, C, Objective-C, SQL (Postgres), JavaScript, TypeScript, HTML, CSS, Haskell, Verilog, R, Bash
<b>Developer Tools</b>	Git, Docker, Make, XCode, Postman, pgAdmin 4, Amazon AWS EC2, Google Firebase, Facebook Watchman, GDB, TCL, Valgrind
<b>Frameworks</b>	Vue, React Native, Ionic, Capacitor, Quasar, Django, JUnit, Espresso, Robolectric