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.

MaXentric 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.

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.

Loup.ai 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

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 UlKit, XCTest, GraphQL, Vue, Ionic, Capacitor, Quasar, Django, JUnit, Espresso, Robolectric