# Aaron Yu

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### **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

Jun. 2024 - Sep. 2024

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

## Work Experience

LinkedIn Sunnyvale, CA

Software Engineer Intern

• 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 critical insights that informed design decisions.
- 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 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 **lonic** and **Capacitor** frameworks in **Vue.js** with **TypeScript** to interface with medical device over Bluetooth LE and graph heart rate data in real time.

UCSP Computer Science and Engineering Department owards building 5G communication platform on a Xilinx FPGA.

San Diego, CA

INSTRUCTIONAL ASSISTANT

Aug. 2021 - Mar. 2023

• Taught **500+** undergraduate students **C**, **C++**, and **ARM** assembly for systems programming and data structures courses.

Loup and one-on-one sessions to assist students with pointers and memory management, Linux CLI, and data structures. 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 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.

**Surfin:** Watchmaking-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**

San Diego, CA

VICE PRESIDENT FINANCE

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 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