Aaron Yu

© (415) 988-5515 | **≥** axyu@ucsd.edu | **⊙** Auroric | **m** aaron-x-yu

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

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

Work Experience

LinkedIn Sunnyvale, CA

Software Engineer Intern

Jun. 2024 - Sep. 2024

- 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 insights informing critical design decisions.
- Researched and implemented a process for integrating analytics data into a shared dashboard, enhancing visibility of key metrics and streamlining Mbutleer নৱানত্য by team.

 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.

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 **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.

Ucsplemented frame check sequence in C for Wifi MAC layer towards 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.

Lours 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: Watchingache Dased video-calling for college students based on their actual current location in real time.

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