

# 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

- **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
<ul style="list-style-type: none"><li>• Implemented and optimized backend <b>gRPC</b> endpoint for collating resume data as part of AI agent data pipeline, achieving latency reduction of <b>20-40%</b> through effective parallelization of database requests.</li><li>• Leveraged <b>PySpark</b> and <b>Trino</b> to process large datasets on <b>Hadoop</b> HDFS, deriving insights informing critical design decisions.</li><li>• Researched and implemented a process for integrating analytics data into a shared dashboard, enhancing visibility of key metrics and streamlining further data onboarding by team.</li></ul>	
Mobile Engineer Intern	Jun. 2023 - Sep. 2023
<ul style="list-style-type: none"><li>• Implemented upsells for new features on LinkedIn's iOS application in <b>Swift</b> and <b>Objective-C</b> towards driving increased Premium subscriptions.</li><li>• Utilized <b>GraphQL</b> to build reusable <b>UIKit</b> components from API-driven content, maximizing code reuse and minimizing technical debt.</li></ul>	
Maxentric	San Diego, CA
Software Engineer Intern	Jun. 2022 - Sep. 2022
<ul style="list-style-type: none"><li>• Designed and built cross-platform web, iOS, and Android app using <b>Ionic</b> and <b>Capacitor</b> frameworks in <b>Vue.js</b> with <b>TypeScript</b> to interface with medical device over Bluetooth LE and graph heart rate data in real time.</li><li>• Implemented frame-check sequence in <b>C</b> for Wi-fi MAC layer towards building 5G communication platform on a Xilinx FPGA.</li></ul>	
UCSD Computer Science and Engineering Department	San Diego, CA
Instructional Assistant	Aug. 2021 - Mar. 2023
<ul style="list-style-type: none"><li>• Taught <b>500+</b> undergraduate students <b>C</b>, <b>C++</b>, and <b>ARM</b> assembly for systems programming and data structures courses.</li><li>• Hosted guided lab hours and one-on-one sessions to assist students with pointers and memory management, <b>Linux CLI</b>, and data structures.</li></ul>	
Loup.ai	San Francisco, CA
Software Engineer Intern	Jul. 2021 - Sep. 2021
<ul style="list-style-type: none"><li>• Redesigned homepage for livestreamed video shopping platform in <b>JavaScript</b>, <b>HTML</b>, and <b>CSS</b> to optimize conversion rate and improve usability.</li><li>• Employed <b>Django</b> and custom <b>Bootstrap</b> templates to automatically populate webpages from backend <b>PostgreSQL</b> database.</li></ul>	

## Projects

ZooSeeker: Automated shortest-route planner for the zoo	Mar. 2022 - Jun. 2022
<ul style="list-style-type: none"><li>• Developed Android app to plan shortest pedestrian routes through selected exhibits at the San Diego Zoo.</li></ul>	
Summ: Matchmaking-based video-calling for college students	Aug. 2020 - Jul. 2021
<ul style="list-style-type: none"><li>• Leveraged Android's <b>Location API</b> and <b>JGraphT</b> to redirect users based on their actual current location in real time.</li><li>• Developed backend for matchmaking-based video-calling iOS and Android app for college students.</li><li>• Tracked user feedback to improve matchmaking by writing <b>Python</b> interface to <b>PostgreSQL</b> database.</li><li>• Built load-testing library employing <b>Docker</b> and <b>docker-compose</b> to test matching algorithm with simultaneous matches.</li></ul>	

## Leadership

Association for Computing Machinery at UC San Diego	San Diego, CA
Vice President Finance	Apr. 2021 - Apr. 2022
<ul style="list-style-type: none"><li>• Executive board member of the Association for Computing Machinery, the largest computing organization on campus with <b>1700+ members</b>.</li><li>• Oversaw <b>5-member</b> finance team responsible for funding <b>100+</b> events each year through maintaining university and corporate sponsorships.</li></ul>	

## 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