

# 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                   |