

Ajay Liu

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EDUCATION

University of California, Santa Barbara

Santa Barbara, CA

Bachelor of Science (B.S.) in Computer Science

Sep 2022 - Expected Jun 2026

- Cumulative GPA: 3.92 / 4.0 (Dean's Honors).
- Relevant Coursework: Data Structures and Algorithms, Distributed Systems, Computer Networking, Computer Architecture.
- Scholarships: UCSB Regents, Taiwanese American Scholarship Fund, Chao Family Foundation, Evalee C. Schwarz Charitable Trust

WORK EXPERIENCE

AppFolio

Santa Barbara, CA

Software Engineer Intern (CI / Dev Tooling Team)

Jun 2025 - Sep 2025

- Implemented bulk test muting on CircleCI dashboard with Ruby, saving teams **80%** time to bypass flaky tests blocking progress.
- Built CLI plugins with Oclif for **200+** engineers to quickly launch MySQL databases and generate documentation templates.
- Pioneered the migration of 4 production databases from MySQL 5.7 to 8.0, establishing best practices for regression testing.

UCSB IT Internship Program

Santa Barbara, CA

Web Application Developer Intern

Apr 2024 - Mar 2025

- Automated user permission updates to cut processing time by **95%** for grad school staff using .NET, C#, React, and TypeScript.
- Designed database schemas and stored procedures in Microsoft SQL Server to consolidate two legacy systems into one.

Early Research Scholars Program (ERSP)

Santa Barbara, CA

Student Researcher

Sep 2023 - Mar 2025

- Formulated pilot study with Four Eyes Lab (AR/VR) Professor Tobias Höllerer on the effectiveness of GPT-4 for Method of Loci.
- Conducted experiments with **50+ participants**, showing a 30% memory recall improvement using AI-generated imagery.

Snag

Santa Barbara, CA

Software Engineer Intern

Jun 2023 - Aug 2023

- Interned 10-weeks with **Founding Software Engineers** on the Snag Delivery App (**200,000+ downloads**) developed with Flutter.
- Generated **800+** missing product descriptions for store items across **11 Snag locations** using GPT-4, TypeScript, Firebase.
- Revamped backend employee system with Deputy API to reduce shift scheduling times by **90%** for Snag store managers.

LEADERSHIP EXPERIENCE

Google Developer Groups - UCSB Chapter

Santa Barbara, CA

Director of Instruction

Sep 2024 - Jun 2025

- Directly recruited 3 guest speakers: **CTO of Snag**, **CEO of Guava Health**, **CTO of Unwrap.AI** with over **200+ total attendees**.
- Host biweekly tutorial workshops on React, Unity, Firebase, React Native, SQL, and Git, boosting club membership by **400%**.

Game Development Club

Fullerton, CA

President (2019-2022), Lead Programmer (2018-2020)

Aug 2018 - Jun 2022

- Led **35 members** to develop and publish 5 games with Unity and Socket.io on Google Play Store and troygamedev.com.

PROJECTS

YapMaps (yapmaps.vercel.app/)

Oct 2025

- Won **1st Place Overall** at Unwrapathon for *YapMaps*, a web app visualizing trending campus discussions across U.S. universities.
- Built an NLP pipeline using all-MiniLM-L6-v2 text embedding to cluster **8000+** Reddit posts by topic and highlight top posts.

GratiCat (devpost.com/software/graticat)

May 2023

- Won **Top 5 Overall Team** out of 34 teams and Honorable Mention for Best Presentation Delivered at SB Hacks IX.
- Built a daily gratitude journaling app with NLP analysis using React Native, helping users reflect on personal values over time.

SKILLS

- **Programming Languages:** TypeScript, Ruby, C++, C#, Python, Java, Shell, SQL, JavaScript, PHP, Assembly, Bazel, YAML.
- **Frameworks & Tools:** React, Firebase, AWS, .NET, Ruby on Rails, Unity, MySQL, SQL Server, PostgreSQL, Azure DevOps, Docker, CircleCI, Next.js, React Native, Flutter, Vue.js, Svelte, Gatsby.js, Node.js, Axios, TailwindCSS, Socket.io, Fast.AI, Jira, Agile, Git, Netlify, Heroku, Vim, Visual Studio Code, PowerBI, Snowflake, Oclif, Rollbar.