Ajay Liu

(714) 717-5172 • ajayliu2928@gmail.com
ajayliu.com • github.com/ajayliu • linkedin.com/in/ajayliu

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).
- Awarded **UCSB Regents Scholarship**, offered to less than 2% of incoming undergraduate freshmen for exceptional merit.
- Relevant Coursework: Data Structures and Algorithms, Advanced Applications Programming, Algorithms Engineering.

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.

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 developers 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**
Fullstack 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 bundle two unrelated permission systems.

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 memory recall.
- Conducted trials with **50+ participants** to evaluate how AI-generated images enhance the "memory palace technique".

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 improve scheduling and timekeeping for Snag store managers.

LEADERSHIP EXPERIENCE

Google Developer Groups - UCSB Chapter   **Santa Barbara, CA**
Director of Instruction   **Sep 2024 - Present**
- 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 and GPT to cluster 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.

AWARDS

Scholarships: UCSB Regents, Taiwanese American Scholarship Fund, Chao Family Foundation, Evalee C. Schwarz Charitable Trust