

Ajay Liu

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EDUCATION

University of California, Santa Barbara

Bachelor of Science, Major in Computer Science, Minor in Applied Psychology

- Cumulative GPA: 3.97 / 4.0 (Dean's Honors).
- Awarded Regents Scholarship, given to less than 2% of incoming undergraduate freshmen for exceptional merit.

Santa Barbara, CA

Sep 2022 - Expected Jun 2026

Troy High School

Computer Science Magnet Pathway

- Awarded Troy Tech Pathways Award in Computer Science; given to two Troy Tech seniors in each pathway annually.

Fullerton, CA

Aug 2018 - Jun 2022

SKILLS

- Full stack web development, Unity game development, Cross-platform app development, C++, TypeScript, C#, React, Next.js, Firebase

EXPERIENCE

UCSB Research Center for Virtual Environments and Behavior (ReCVEB)

Research Assistant

- Integrate VR headset with an omnidirectional treadmill in Unity using SimpleXR to study navigation in virtual environments.

Santa Barbara, CA

Oct 2023 - Present

Early Research Scholars Program

Student Researcher

- One of less than 40 students admitted to highly selective year-long apprenticeship pairing students with faculty in computing research.
- Collaborate with professor, graduate students, and 3 peers to improve multimodal interaction in augmented reality.

Santa Barbara, CA

Sep 2023 - Present

Snag Delivery Inc.

Software Engineer Intern

- 10-week paid internship at local campus delivery startup under California NanoSystems Institute's Propel Startup Fellowship.
- Migrated backend employee scheduling system across multiple store locations, helping managers and employees monitor active shifts.
- Generated humorous product descriptions for more than 800 store items across all Snag locations using Natural Language Processing.

Isla Vista, CA

Jun 2023 - Aug 2023

Charipay Co.

Frontend Web Developer Intern

- Earned one of 2 spots out of 16 applicants for UCLA startup after rigorous technical interview process. Shadowed for 150 hours.

Los Angeles, CA

Jun 2021 - Jul 2021

SuperProf

Online Instructor

- Tutored first-year college student with advanced level C++ development course that resulted in significant grade improvement.

Fullerton, CA

Feb 2020 - Nov 2021

PROJECTS

GratiCat (devpost.com/software/graticat)

- Won Top 5 Overall out of 31 teams at SB Hacks IX; won Honorable Mention award for best presentation delivered.
- Collaborated effectively with a team of 4 to develop a gratitude app, incorporating NLP to analyze users' values with React Native.

May 2023

Verde (github.com/AjayLiu/verde)

- Won UCSB's Google Developer Student Club Solution Challenge, a four-month long software development competition.
- Collaborated with 3 team members to create a social media app promoting sustainability. Built with React Native and Firebase.

Mar 2023

Notation Visualizer (notation-visualizer.ajayliu.com)

- Developed interactive visualizer site explaining Computer Science topics: Infix, Prefix (Polish), and Postfix (Reverse Polish) notation.

Jul 2022

Bet You Don't Know (bet-you-dont-know.ajayliu.com)

- Built full-stack multiplayer website with realtime lobby, chat, kick, admin capabilities using Socket.io, Express, Next.js, and TypeScript.

Jun 2021

Inspiration Jar (inspiration-jar.ajayliu.com)

- Launched full-stack positivity social media platform using Google OAuth 2.0 for login, send, read, and upvote capabilities.

Mar 2021

AjayLiu.com (ajayliu.com)

- Designed own interactive portfolio showcasing over 15 personal and collaborative projects. Visited by more than 3000 unique users.

Feb 2020 - Present

EXTRACURRICULAR ACTIVITY

Untitled Dance Company

Dancer

- Practice 8 hrs/wk to perform at Hip Hop International Championship, Welcome to the 805, and Untitled Spring Benefit Showcase.

Santa Barbara, CA

Sep 2022 - Present

All Male Varsity Dance Team

Captain (2021-2022)

- Won 1st place for Small All Male category at CADTD Esperanza High School and WCE Newbury Park High School.

Fullerton, CA

Jul 2020 - Jun 2022

Game Development Club

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

- Led 35 members across 3 departments to develop games collaboratively via Git. Published 3 games on Google Play trovgamedev.com.

Fullerton, CA

Aug 2018 - Jun 2022

AWARDS

Taiwanese American Scholarship Fund

- Awarded to 10 outstanding Taiwanese American high school seniors and first-year college students across the United States annually.

Jun 2022

Chao Family Foundation Scholarship

- Awarded to 5 high school seniors seeking a degree at University of California (UC) or Cal State University in Fall 2022.

Jun 2022