

# Andrew Su

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## EDUCATION

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### University of California, Los Angeles

B.S. Physics, B.S. Computer Science

Los Angeles, CA

Sep 2022 – June 2026

- **Overall GPA:** 3.75/4.00, Dean's Honor List (Fall 2024, Spring 2025)
- **Upper Division Physics GPA:** 3.94/4.00
- **Relevant Coursework:** CS: Operating Systems, CS: Digital Design Lab, CS: Data Structures and Algorithms, Computer Organization and Systems Architecture, CS: Logic Systems and Design, Calculus III, Physics: Mathematical Methods for Modern Physics, Physics: Analytic Mechanics, Physics: Quantum Computing (Graduate Level), Physics: Quantum Mechanics III, Physics: Computational Lab

## PROFESSIONAL & RESEARCH EXPERIENCES

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### UCLA Particle Physics (CMS VR), Department of Physics & Astronomy

Los Angeles, CA

Researcher & Software Engineer - Project Lead

Sep 2023 – Present

- Worked under Professor Jay Hauser of the UCLA CMS Experimental Particle Physics Group
- Developed novel VR displays for particle collision events at the Compact Muon Solenoid (CMS) Experiment at the Large Hadron Collider using C# and Unity, granting researchers previously unattainable insight into complex aspects of the collision data, such as the intersections of particle trajectories
- Developed a parser for IG file conversion using C# and Bash, ensuring seamless integration with Meta Quest headsets to display particle collider data in a VR setting

### UCLA Nuclear Physics, Department of Physics & Astronomy

Los Angeles, CA

Research Assistant

Oct 2023 – Sep 2024

- Worked under Professor Huan Huang of the UCLA Experimental Nuclear Physics Group
- Conducted advanced analysis using ROOT, C++, and Bash on data from the Relativistic Heavy Ion Collider at Brookhaven National Lab to study anisotropic flow in relativistic nuclear collisions

### Wit Sports

New York City, NY

Software Engineering Intern

June 2022 – Sep 2022

- Developed an interactive full-stack web application for the New York Islanders, increasing fan participation and leveraging modern frameworks such as Node.js, React, and Express
- Designed and implemented intuitive user interfaces using HTML, CSS, and JavaScript, ensuring a seamless and enjoyable user experience

## CLUBS & ASSOCIATIONS

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### Sigma Pi Sigma Physics Honor Society - President

- Orchestrated membership growth and recruitment initiatives, increasing chapter size by 100% through targeted outreach and value-added offerings
- Instituted a comprehensive academic document archive, peer-to-peer tutoring, and review system, providing significant academic benefits to members
- Liaised with professors to organize student-professor networking events

### Sharpe Fellowship

- Chosen as 1 of 10 from over 1000 applicants for the prestigious UCLA Sharpe Fellowship in Economics, based on demonstrated excellence in leadership, academic achievement, and civic engagement.
- Led and won the 2024 annual case competition, conducting an incisive analysis of the 2028 LA Olympics brand partnership opportunities and delivering compelling recommendations before panels of industry experts.

## SKILLS & INTERESTS

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- **Skills:** C++/C, C#, Java, Python, ROOT, Unity, QuTip, Git, CMS Computing Tools, NumPy, SciPy
- **Interests:** Grilling, Crosswords, Brazilian Jiu Jitsu, Tennis, Reading