

# Taylor Chen

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## Education

**University of California, Los Angeles**

*Expected Graduation June 2025*

*B.S. in Computer Science and Engineering*

- GPA: 4.0
- Relevant coursework: Data Structures and Algorithms
- National Merit Scholarship Finalist

## Skills

- C++, HTML/CSS/JavaScript, Java, Microsoft Word, Excel, PowerPoint, SolidWorks

## Projects

### Matchmaker App

- Created a dating app capable of storing information on millions of users and quickly finding/ranking compatible matches from this pool
- Implemented a radix tree and used hash tables for efficient insertion and retrieval of user data and compatible attributes

### Buffon's Needle Problem

- Created a monte-carlo simulation of Buffon's Needle Problem in geometrical probability used to experimentally verify theoretical probability calculations
- Coded a definite integral solver that uses Riemann sums to perform theoretical probability calculations
- Designed and built a GUI for simulation using HTML, CSS, and JavaScript, providing a visual representation of the experimental results to users

### Super Mario Bros Clone

- Programmed a Super Mario Bros game clone in C++ using object-oriented principles with a variety of enemies, powerups, and customizable levels

## Experience

### UCLA ACM | TeachLA Dev Team Member

*Sept 2021 – Present*

- Update and maintain UCLA's ACM website with ReactJS to ease site navigation for users and improve its aesthetic

### Bruin Racing Baja | Powertrain Subteam Member

*Sept 2021 – Present*

- Collaborated with team members to create 3D models and technical drawings of parts using SolidWorks like the differential housing allowing quicker turnaround on machining
- Check and take inventory of stock materials to ensure the team is ready to begin building Mark 22

### Key Club | Club President

*Sept 2018 – June 2021*

- Led team of officers to organize and publicize service events for club's 72 members
- Implemented an incentive system and expanded social media presence to increase membership by 20%, participation by 14%, and fundraised \$300 for the Pediatric Trauma Program
- Awarded District Officer of the Month and Linda Malhaupt Scholarship