

Taylor Chen

tchen073@gmail.com | (949) 680 - 8209 | [taylorchen.github.io](https://github.com/taylorchen) | [linkedin.com/in/taylorchen](https://www.linkedin.com/in/taylorchen)

Education

University of California, Los Angeles

Expected June 2025

B.S. in Computer Science and Engineering

- National Merit Scholarship Finalist
- GPA: 4.0
- Relevant coursework: Data Structures and Algorithms (in progress)

Skills

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

Projects

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

Chess

- Programmed a console chess game in Java using object-oriented principles with special rules such as pawn promotion, en passant, castling, check, and checkmate

Experience

UCLA ACM | TeachLA and ICPC Member

Sept 2021 – Present

- Update and maintain UCLA ACM website with ReactJS to ease site navigation for users and improve its aesthetic
- Learn competitive programming skills such as algorithms and dynamic programming to solve problems more efficiently to compete in CodeSprint LA and other local competitions

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