Taylor Chen

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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

· **Computer**: C++, HTML/CSS/JavaScript, Java, Microsoft Word, Excel, PowerPoint, SolidWorks
· **Machines**: Lathe, Mill

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 with special rules such as pawn promotion, en passant, castling, check, and checkmate
· Currently refactoring it in C++ using object-oriented design principles to improve code readability

Experience

UCLA ACM | ICPC Member   *Sept 2021 – Present*

· Learn competitive programming skills such as algorithms and dynamic programming to solve problems more efficiently
· Practice 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