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 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