Martin Estrin

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EDUCATION

University of Southern California *Los Angeles, CA*
Bachelor of Science in Computer Science — May 2025
Honors: Hoffman Scholar, Academic Achievement Award Recipient — GPA: 3.91/4.0
Relevant Coursework: Data Structures and Object-Oriented Design, Algorithms and the Theory of Computing

PROFESSIONAL EXPERIENCE

Outlier *San Francisco, CA (Remote)*
Software Engineer - AI Training — January 2024-Present
- Successfully completed numerous complex coding challenges on the Remotasks platform in C++, Python and Java, enhancing the accuracy and efficiency of AI-powered large language models.
- Developed comprehensive test cases and authored in-depth explanations for programming challenges — with an emphasis on clear, human-readable summaries — facilitating the advancement of generative AI models.

USC Viterbi School of Engineering *Los Angeles, CA*
CS 170 Course Producer — January 2024–Present
- Created course materials, encompassing 10 homework assignments and 15 lecture notes, for USC's introductory computer science course, formulating a robust and comprehensive curriculum for a class of over 250 students.
- Held bi-weekly office hours designed to actively assist students in complex topics of Big-O Notation, Recursion, Sorting Algorithms, Graph Theory and Searching Algorithms.

Morpheus Space *El Segundo, CA*
Finance and Development Intern — August 2022–December 2022
- Analyzed revenues, expenditures and business needs using Excel, ensuring timely development of annual budget.
- Engaged in three iterative user interface simulations, systematically identifying and documenting key errors in the user experience, ensuring the swift deployment of user-centric software solutions.

PROJECTS

Peer Tutoring System — December 2023
https://www.tutordashboard.martinestrin.com
- Developed a robust, user-friendly website tailored for AP class tutoring, employing HTML, CSS, JavaScript, and NoSQL (MongoDB), successfully connecting students with qualified tutors.
- Conceptualized and implemented a sophisticated algorithm to match students with online tutors based on specific subject needs, tutor expertise, and real-time availability, resulting in a stable matching of students and tutors.

Doublet Game Solver — October 2023
https://www.doublet.martinestrin.com
- Skillfully created an interactive web platform using HTML, CSS, and JavaScript, integrated with a Python Django web framework, facilitating the seamless execution of a C++ program designed to solve the doublet game.
- Engineered a sophisticated solution to the doublet game using the A* search algorithm in C++, optimizing the process of transforming a starting word to a target word with the fewest number of transformations.

INVOLVEMENT & LEADERSHIP

USC Association for Computing Machinery *Los Angeles, CA*
General Member — August 2023–Present
- Actively contributed to collaborative projects, hackathons and technical workshops covering version control and containers, fostering a community of peer-to-peer learning and enhancing software development skills.

USC TAMID *Los Angeles, CA*
Vice President — January 2023-Present
- Lecture to a cohort of 20 newly-initiated club members on a weekly basis, communicating fundamentals of Python programming, stock market investing and managerial consulting, thus cultivating competence amongst members.

SKILLS & INTERESTS

Skills: C++, C#, Python, Java, JavaScript, HTML, CSS, Node.js, R, Django, NoSQL, MySQL, Git, Linux, Docker, AJAX
Interests: Skiing, Table Tennis, Seattle Sports, Red Hot Chili Peppers, *The Office*