

Martin Estrin
801 W 28th St
Los Angeles, CA 90007

January 19th, 2024

Nick Blackford
Principle Stress Analyst
Blue Origin
801 Market Street
Kirkland, WA 98033

Dear Mr. Blackford,

I am excited to express my interest in an internship opportunity within the software engineering domain at Blue Origin for the summer of 2024. Kimberly Wolf, a family friend, spoke highly of my academic and professional pursuits in computer science and believed that my skills and experiences would be a valuable match for Blue Origin. She recommended that I contact you for guidance and the possibility of forwarding my application to the right people in your organization.

Having interned at Morpheus Space - an aerospace startup located in El Segundo, California - I have garnered an avid interest in the aerospace industry and am eager to bring the skills I have developed in my academic and professional career toward Blue Origin, a pioneer in the aerospace industry.

I am currently a junior at the University of Southern California majoring in computer science. I have taken coursework in data structures, algorithms and software development. I am also a course producer for CS 170, an introductory computer science class at USC. Currently, I am working as a software engineer at Outlier, specializing in AI Training. My primary responsibilities pertain to reviewing code produced by AI language models, ensuring accuracy, conciseness and optimization. I also author clear, human-readable explanations of programming solutions, ensuring the swift development of AI models.

I am particularly excited about applying my skills in software engineering, AI Training, and collaborative teamwork toward Blue Origin's mission of pioneering space exploration. The hands-on experiences I've gained at Morpheus Space and Outlier, combined with my academic background in computer science, have equipped me with a strong foundation in critical areas relevant to your team's work.

Thank you for taking the time to review my candidacy. I am looking forward to the possibility of discussing these opportunities further.

Sincerely,

Martin Estrin

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*