

Education

University of California- Santa Barbara

Graduation Date: June 2027

Bachelor of Science (B.S.) in Computer Science | GPA: 3.86/4.00

- **Relevant Coursework:** Computer Organization, Linear Algebra, Calculus III, Discrete Mathematics, Probability & Statistics

Experience

Software & IT Support

Simi Valley, CA

SimiCare Medical Group

June 2025 – Present

- Redesigned and deployed the practice website with responsive layouts and clearer navigation, improving accessibility of resources and scheduling.
- Authored a troubleshooting guide covering common issues, reducing repeat support requests and enabling staff to resolve problems independently.

Software Engineering Intern

Los Angeles, CA

Mammoth Media

June 2023 – Aug 2023

- Collaborated with a 15-member engineering team to refine and ship user-facing features for a high-traffic media platform.
- Enhanced front-end performance and responsiveness by optimizing JavaScript components and streamlining UI workflows.
- Participated in code reviews and agile sprints, improving code quality and aligning feature delivery with product deadlines.

Freelance Tutor

Remote / Los Angeles, CA

Self-Employed

Sep 2021 – Present

- Delivered personalized tutoring in computer science (Python, Java, C++) and mathematics to 30+ clients.
- Supported students in developing practical programming projects and competitive coding skills.

Projects

NBA Fantasy Draft Optimization Tool

In Progress

- Predicted player season performance with 30% lower error than using last year's stats, across 1,100 player-seasons.
- Processed 5 seasons of data (~3k rows, ~1k players) and built a live draft tool that updates rankings instantly (<1 ms) after each pick.
- Designed end-to-end pipeline (data cleaning, modeling, and live recommendations) with Flask/React front end for real draft scenarios.

MDS and PCA Visualization on the Iris Dataset

May 2024

- Built an interactive visualization tool using Bokeh and Matplotlib to illustrate Multidimensional Scaling (MDS) and Principal Component Analysis (PCA) applied to the Iris dataset.
- Demonstrated how dimensionality reduction can preserve essential structures, making abstract concepts in multi-variable calculus more tangible.

Gradient Descent Visualization Tool

Jan 2024

- Developed an interactive tool using Python to visualize the principles of gradient descent, including how different learning rates impact convergence on a quadratic function.
- Implemented NumPy for numerical computations and Matplotlib for graphical representation, making the concept accessible for both beginners and experienced individuals in machine learning.

Leadership & Extracurricular Activities

Robotics Team | UCSB

Jan 2025 - Present

- Decreased decision-making latency of autonomous control algorithms by 30-50 milliseconds by optimizing code, leading to a 15% increase in the autonomous phase score during VEX Robotics competitions.

Skills

Languages: C++, C, Java, Python, JavaScript, R/R Shiny, SQL

Technologies/Frameworks: Git, React, Flask, Pandas, NumPy, scikit-learn, Matplotlib, Bokeh, HTML, CSS