

## Education

**University of California- Santa Barbara** *Graduation Date: June 2027*  
*Bachelor of Science (B.S.) in Computer Science | GPA: 3.87/4.00*

- **Relevant Coursework:** Data Structures & Algorithms, Linear Algebra, Discrete Mathematics, Probability & Statistics

## Experience

**Software & IT Support** Simi Valley, CA  
June 2025 – Sep 2025  
*SimiCare Medical Group*

- Rebuilt the clinic website into a modern responsive layout, increasing engagement by ~25% and reducing IT tickets through a troubleshooting guide.
- Automated patient reminder and follow-up workflows (Python + SMTP), saving staff ~3-4 hours per week.

**Software Engineering Intern** Los Angeles, CA  
June 2023 – Aug 2023  
*Mammoth Media*

- Shipped front-end features for a high-traffic media platform and refactored JavaScript components to improve responsiveness.
- Collaborated within a 15-person engineering team, contributing to code reviews, sprint cycles, and iterative feature releases.

## Research

**Undergraduate Research – ERSP | UCSB** Sep 2025 – Present

- Studying EF1/EFX fair-division on graph-structured indivisible goods; analyzing existence and tractability conditions and prototyping DP-based baselines on bounded-degree graphs.
- Implementing EF1 allocation procedures and generating benchmark datasets across randomized graph families; conducting literature review to guide conjectures and experimental design.

## Projects

**Clinical Decision Support Multi-Agent System** Nov 2025

- Built a clinical reasoning backend using a five-agent LLM pipeline with strict JSON-schema enforcement and guideline-aware validation to reduce unsafe or unsupported treatment suggestions.
- Deployed a Dockerized FastAPI backend on AWS EC2, implementing patient normalization, medication-set expansion, contraindication checks, guideline filtering, and citation generation via a live public API.

**NBA Fantasy Draft Optimization Tool** Sep 2025

- Built a fantasy draft optimizer analyzing five seasons of NBA data (~3k rows) to generate real-time draft recommendations.
- Improved prediction accuracy by ~30% using regression models and Monte Carlo simulations across 1,100 player-seasons.
- Developed an end-to-end ML pipeline (cleaning, feature engineering, modeling, simulation) and deployed via a Flask API with a React UI.

## Leadership & Extracurricular Activities

**Project C.A.R.E | UCSB** Oct 2025 - Present

- Leading full-stack redevelopment of Project C.A.R.E's platform (React + Tailwind), automating content workflows and adding analytics dashboards to guide outreach.

**Robotics Team | UCSB** Jan 2025 - Present

- Optimized autonomous control code, reducing latency by 30–50 ms and improving autonomous scoring ~15%.

## Skills

**Languages:** C++, Python, JavaScript/TypeScript, Java, SQL

**Technologies/Frameworks:** React, FastAPI/Flask, NumPy/Pandas/scikit-learn, Tailwind CSS, Docker, Git, Matplotlib