

Omar A. Safi

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EDUCATION

University of California, Merced

B.S. Applied Mathematics

Graduation, May 2025

- o **Concentrations:** Engineering
- o **GPA:** 3.82/4.00, *Dean's List*
- o **Related Coursework:** Statics & Dynamics, Fluid Mechanics, Numerical Analysis, Linear Algebra, Ordinary & Partial Differential Equations, Optimization, Numerical Methods, Statistics & Probability Applications

CERTIFICATIONS

SOLIDWORKS CAD Design Associate (CWSA)

October 2025

OSHA 10 Hour General Industry

December 2025

EXPERIENCE

AJ Tutoring

Los Altos, California

Tutor

June 2025 - present

- Developed customized learning plans for high-school students in math and statistics, resulting in improved confidence and mastery of key concepts.
- Monitored student progress using targeted assessments, adapted instruction on-the-fly, and helped students successfully tackle unfamiliar problem types.

STEM Tutoring HUB

Merced, California

Physics Student Tutor

August 2024 – May 2025

- Assisted students in understanding and applying concepts of Newton's laws of motion and electromagnetism
- Homework scores improved by 10% and exams improved by 5% after tutoring sessions
- Provided tailored learning strategies, fostering critical thinking and problem-solving skills, which enhanced overall student confidence and academic performance

UC Merced Dining Associate

Merced, California

Custodian, Cashier

Jan 2022 – July 2024

- Maintained cleanliness and organization of dining facilities, ensuring a safe and hygienic environment for students and staff
- Processed customer transactions accurately and efficiently while providing friendly and attentive service in a fast-paced dining environment.

Sunnyvale Soccer Alliance

Sunnyvale, California

Summer Camp Counselor

Jun 2021 – Aug 2021

- Planned and facilitated engaging soccer drills and activities to develop campers' skills, teamwork, and sportsmanship

PROJECTS

Daily Fantasy Optimization and Risk Management

Team Lead

Jun 2024 – Present

- Developed a expected value focused method on choosing lines, used this method to increase ROI by 10%
- Used kelly criterion to minimize risk and maximize gains, bankroll diversification, variance analysis to check quality of the method

California High Speed Rail Route

Team Lead

Nov 2018 – Jan 2019

- Set up an Optimization problem to minimize distance of track and maximize potential train riders enjoyment
- Solved the traveling salesman problem, and also compared various heuristic solutions.

SKILLS

Tools: Solidworks, CAD, ArcGIS, Jupyter Notebooks, Git

Programming: Python, MATLAB, HTML/CSS, SQL, R