Edward Liu

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Education

University of California, Santa Barbara Expected Graduation: 2029
B.S. Statistics and Data Science

Los Altos High School 2022-2026
GPA: 4.46/4.0

Coursework
Linear Algebra (Math 4a)
AP Calculus BC (5), AP Statistics (5), AP Physics C: Mechanics/E&M (5), AP Chemistry (5)
Foothill College: Multivariable Calculus (Math 1C), Discrete Mathematics (Math 22)
De Anza College: Multivariable Calculus (Math 1D)
HarvardX: Introduction to Computer Science (CS50)

Research

University of Southern California 2024-2025
- Research intern under Professor Wei Wu at Department of Electrical and Computer Engineering
- Studied AI detection of heart attack biomarkers using Raman spectroscopy
- Focused on data processing and model evaluation
- Published paper in ACS Applied Biomaterials

University of Michigan 2025-2026
- Research intern under Professor Ji Zhu at Department of Statistics
- Worked on generation of realistic & ethical synthetic health records using statistical models
- Self-studied *Understanding Deep Learning* by Simon Prince

Experience

Predicting Smartphone Addiction 2026
- Built a machine learning model to predict digital addiction using 691k records of user behavior
- Used regression imputation to estimate missing values from related variables, added new augmented features
- Tested CatBoost, LightGBM, and XGBoost and used ensemble learning to combine their predictions into a stronger model, achieving a ROC-AUC of 0.9664

Archery Coach 2024-Present
- Certified Level 1 Coach with USArchery
- Private lessons for kids aged 8-15 with hourly rate of $80
- Organized and coached archery camp with 40+ kids in summer 2025

Scouting Lead (FIRST Robotics) 2022-2026
- Implemented robot autonomous mechanism code in C++
- Created scouting app used by hundreds of users worldwide
- Led strategy at competitions based on collected data

Skills

Python • C++ • Javascript • React • SQL • Supabase • Git • Statistics • Machine Learning • Prompt Engineering • Leadership • Project Management • Outreach • Teamwork • Problem Solving