

# Tiancheng Shao

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## EDUCATION

### University of California, Los Angeles, Los Angeles, CA

Sep 2025-Expected Jun 2029

Candidate for Bachelor of Arts, Business Economics & Bachelor of Science, Statistics & Data Science GPA: 3.88

Relevant Coursework: Microeconomic Theory, Principles of Accounting

### Montgomery Blair High School, Silver Spring, MD

Aug 2021-June 2025

Science, Mathematics, Computer Science Magnet Program GPA: 4.9

SAT score: 1580; Reading & writing: 790 Math: 790

Relevant Coursework: AP Macro & Micro(5), AP Statistics (5), Analysis of Algorithms, Algorithms and Data Structures

## EXPERIENCE

### BDO x Net Impact Case Competition — 1st Place (37 teams)

Nov 2025

- Solved a multi-constraint EV supply chain problem involving battery shortages, ESG targets, and customer attrition.
- Built structured analyses for supplier diversification, risk management (COSO ERM), and communication strategy.
- Synthesized & presented insights into an executive recommendation to BDO judges; placed **1st out of 37 teams**.

### NASA Goddard Space Flight Center | Research Intern, Greenbelt, Maryland

Jun 2024-Aug 2024

- Analyzed May 2024 solar storm data using ML models to assess satellite communication risk; findings informed risk awareness for infrastructure serving rural regions
- Presented findings to a global audience of **25,000+** researchers and policymakers at AGU 2024.

### Coop. Institute for Satellite Earth System Studies | Research Intern, College Park, Maryland

Jun 2023-Aug 2023

- Built TensorFlow U-NET model for satellite image segmentation to track Iceberg A73.
- Automated iceberg size, rotation, and location metrics **over 700+ Kilometers**, quantifying size and melt rate.
- Presented findings at the 2024 American Meteorological Society (AMS) Meeting.

### Department of Astronomy University of Maryland | Research Intern, College Park, Maryland

Jul 2022-Nov 2022

- Developed and trained LSTM models predicting Disturbance Storm Time (Dst) indices by integrating WIND satellite and ground observatory data in a dataset with over **2.6 million** datapoints
- Achieved **98% accuracy** in predicting storm intensity 8 hours in advance, vital for communication and power grids.

### EcoMoco Student Organization | Executive Board Member, Rockville Maryland

Aug 2024-Jun 2025

- Led technical team on website redevelopment for ecomoco.com, a student-led organization with 217 members.
- Coordinated cross-functional board to execute **100+ initiatives** impacting **10,000+** community members.

### Math Team | Team Leader, Silver Spring Maryland

Aug 2023-Jun 2025

- Led 9 team members overhaul meeting structures focusing on interactivity, improving meeting attendance by 50%.
- Researched, wrote, and presented weekly lectures to over **100+ members** of Math Team.

## PROJECTS

### DECA VBC | Competitor

Jan 2024-Feb 2024

- Built an automated advertising budget system using PyAutoGUI, PIL, and OpenCV. Optimized audience targeting from simulated poll data with Excel.

### tanchan.xyz | Personal Website

Jul 2024-Oct 2025

- Designed & scaled portfolio and web games using React, Tailwind, and Next.js. **1.8k+ unique visitors per month**.

## AWARDS + HONORS

- International Finalist for Accounting Applications (DECA ICDC, Top 10 of over 150 qualifiers) 2024, 2025
- ExploraVision Semifinalist (Toshiba/NSTA STEM Competition, 100 out of 1000) 2024
- Non-Trivial Fellowship Finalist (National Research Fellowship Program, 500/10000) 2024

## SKILLS

**Technical:** Excel(advanced), Python, R, SQL, Statistical Analysis, Optimization, PowerPoint, Tensorflow

**Interests:** Making websites, playing guitar, working out