

ROSHAN TANEJA

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COMMUNITY AND RESEARCH AWARDS

- NeurIPS Winner: ML for Social Impact 2024
- President's Volunteer Service Award, Gold Medal 2024
- Melvin Jones International Humanitarian Services Award 2024
- Nominee, International Children's Peace Prize 2024
- Next Generation Foresight Practitioner Youth Voices UN SDG #6 Award 2023

ACADEMIC EXCELLENCE AWARDS

- Computer Science Department Honor 2025
- Excellence in Fundamentalism 2025
- Excellence in AP Physics C 2025
- AP Scholar with Distinction 2024
- Excellence in AP English Lang 2024
- Rotary Computer Science Award 2023
- Excellence in Spanish 2023
- Robotics Regionals 2023, 2024, 2025

LEADERSHIP

- Youth President, Maji Wells 2021–Present
- President/Spirit Chair, SHP 2023–2025
- Co-founder, Improv Club, SHP 2022–2025
- Lead, Robotics Club, SHP 2022–2025

RECOGNIZED & FEATURED

- Featured: Harvard Spatial Data Lab 2024
- Sacred Heart Magazine 2024
- MDCON24, Multi-District East Africa Conference 2023

SOCIALS

- 🌐 roshan.codes
- 🐙 github.com/roshantaneja
- 🌐 linkedin.com/in/roshan-taneja
- 🔗 roshantaneja.stck.me

EDUCATION

- ELECTRICAL ENGINEERING & COMPUTER SCIENCE @ UC Berkeley 2025–Present
- HIGH SCHOOL DIPLOMA @ Sacred Heart Preparatory, Atherton 2022–2025
 - GPA: 3.97–ACT: 36
 - AP: Calc BC, Phys 1, CompSci A, Macro, Micro, Phys C, Eng Lang, Eng Lit, Spanish
 - Post-AP: Advanced Math, Advanced Computer Science, Machine Learning, Senior Honors Independent Study
- SPATIAL RESEARCH CERTIFICATE @ Harvard GIS Institute Spring 2025
- INTERMEDIATE DATA SCIENCE @ UCLA CSSI Summer 2024
- INTRODUCTION TO CLIMATE SCIENCE @ UC Berkeley Summer 2024
- REMOTE SENSING @ MIT Beaver Works Spring 2024
- DATA STRUCTURES AND ALGORITHMS @ John Hopkins CTY Summer 2023
- GLOBAL MATHEMATICS @ Duke University Summer Summer 2022

PROJECTS, VOLUNTEERING, & WORK EXPERIENCE

- YOUTH PRESIDENT, WATER PROGRAMS @ Maji Wells 2021–Present
 - Reduced need for women to walk for water from 9 hrs per day to 2 hrs/day by fundraising over \$100K and deploying 100 rainwater harvesting units over four years; Helps 10,000 Maasai in Monduli, TZ. Led a team of 10 students to conduct on-ground research published.
- RESEARCH INTERN @ Harvard University Fall 2024–Summer 2025
 - Working with Prof. Wang in the Center for Geographic Analysis to expand use cases for placement of water harvesting units using satellite imagery & machine learning for Maasai in Tanzania.
- CLASS OFFICER @ Sacred Heart Preparatory 2023–2025
 - As 1 of 6 officers, Junior & Senior yr, planned and executed 25 events; Introduced three new events across 500+ students that became recurring traditions.
- ENGINEERING INTERN @ Fluxon Apps Summer 2023
 - Built typescript tool to automate previously manual billing for employees. Saved 2000 annual man-hrs; first intern for the company.
- SALES AND MECHANIC @ Calabas Cyclery Summer 2022
 - Sold bicycles worth \$15K, digitized floor inventory, fixed bikes, and managed check-out counter; Upgraded website and social media accounts with more high-resolution pictures, online catalog, video posting.

PUBLICATIONS, PATENTS & ACADEMIC CONFERENCES

- PRESENTER: NEURIPS 2024 WINNER "MACHINE LEARNING 4 SOCIAL IMPACT" 2024
 - 1 of 4 Winners from 330 global entries, 14,000 attendees.
- PATENT PENDING, PUBLICATION: OBJECT DETECTION IN SATELLITE IMAGERY FOR OPTIMIZING THE PLACEMENT OF RAINWATER UNITS 2024
 - US Patent Pending 63/703,232. Published in NHSJS.
- PRESENTER: MACHINE LEARNING 4 EARTH OBSERVATION CONFERENCE @ The University of Exeter, UK 2024
- PUBLICATION: ASSESSING THE IMPACT OF RAINWATER HARVESTING ON 4500+ MAASAI 2024
 - Published in NHSJS.
- SHORT STORY: "POMEGRANATES" 2024
 - Published in The Ravens Perch, PALM, Beyond Words Magazine, Part of current Junior Year AP English Language Curriculum at SHP.
- PRESENTER: MDCON23, MULTI-DISTRICT EAST AFRICA CONFERENCE @ Lions International, Tanzania 2023
 - Audience of over 600 international members from across East Africa.