

ROSHAN TANEJA

🏠 Cupertino, CA, United States

📞 +1 (650) 660 1901

✉️ rytaneja [at] gmail [dot] com

COMMUNITY AND RESEARCH AWARDS

- ◇ NeurIPS Winner (1/355) 2024
- ◇ President's Volunteer Service Award, Gold Medal 2024
- ◇ Melvin Jones International Humanitarian Services Award 2024
- ◇ Next Generation Foresight Practitioner Youth Voices UN SDG #6 Award 2023

ACADEMIC EXCELLENCE AWARDS

- ◇ AP Scholar with Distinction 2024
- ◇ Excellence in AP English Lang 2024
- ◇ Rotary Computer Science Award 2023
- ◇ Excellence in Spanish 2023
- ◇ Control and Innovate Award, NorCal Robotics 2023, 2024

LEADERSHIP

- ◇ Youth President, Water Programs, Maji Wells 2021-present
- ◇ Class Officer, Spirit Chair, Sacred Heart Preparatory 2023-present
- ◇ Co-founder, Improv Club, Sacred Heart Preparatory 2022-present
- ◇ Hardware Lead, Robotics Club, Sacred Heart Preparatory 2022-present

RECOGNIZED & FEATURED

- ◇ Changing Lives [Sprint 24], Sacred Heart Magazine 2024
- ◇ Presenter, MDCON24, Multi-District East Africa Conference 2023

SOCIALS

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

EDUCATION

- HIGH SCHOOL DIPLOMA @ Sacred Heart Preparatory. 2022-2025
 - ◇ GPA: 3.94: ACT: 36 (Math: 36, Science: 36, Reading: 36, English: 34)
 - ◇ AP: Calc BC, Phys 1, CS A, Macro, Micro, Phys C, Eng Lang, Eng Lit, Spanish
 - ◇ Post-AP: Advanced Math, Advanced Computer Science, Machine Learning, Senior Honors Independent Study
- INTERMEDIATE DATA SCIENCE @ UCLA CSSI Summer 2024
- INTRODUCTION TO CLIMATE SCIENCE @ UC Berkley Summer 2024
- REMOTE SENSING @ MIT Beaverworks 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 3 hrs/day by fundraising over \$100K and deploying 100 rainwater harvesting units over four years; Helps 4500+ Maasai in Monduli, TZ. Led a team of 10 students to conduct on-ground research published
 - ◇ Developed a machine learning-based satellite image classification model to identify living locations for 30,000 Maasai to plan the placement of the next 100 water harvesting units.
- 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
- SALES AND MECHANIC @ Calabas Cyclery Summer 2022-Present
 - ◇ Sold bicycles worth \$15K, managed floor inventory, fixed bikes, and managed check-out counter; Upgraded website and social media accounts with more high-resolution pictures, online catalog, video posting
- 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
- RESEARCH INTERN @ Harvard GIS Lab/Spatial Sciences USC Fall 2024
 - ◇ Working with Prof. Wang to expand use cases for placement of waterharvesting units using satellite imagery machine learning for Maasai in Tanzania.

PUBLICATIONS, PATENTS & ACADEMIC CONFERENCES

- PATENT PENDING, PUBLICATION: OBJECT DETECTION IN SATELLITE IMAGERY FOR OPTIMIZING THE PLACEMENT OF RAINWATER UNITS 2024
 - ◇ Patent Pending, Winner NeurIPS (4 out of 355 enteries), In peer review NHSJS
- PRESENTER: MACHINE LEARNING 4 EARTH OBSERVATION CONFERENCE @ The University of Exeter, UK 2024
- PRESENTER: NEURIPS 2024: 1 OF 4 WINNERS FROM 355 GLOBAL ENTERIES @ Vancouver, Canada 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 Curriculum at SHP
- PRESENTER: MDCON23, MULTI-DISTRICT EAST AFRICA CONFERENCE @ Lions International, Tanzania 2023
 - ◇ Audience of over 600 international members from across East Africa