

## 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

- ◇ 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

- ◇ Featured: Harvard University Spatial Data Labs Blog 2024
- ◇ 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)
  - ◇ Senior Semester 1 GPA: 4.22
  - ◇ 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 Beaver Works Spring 2024
- DATA STRUCTURES AND ALGORITHMS @ John Hopkins CTY Summer 2023
- GLOBAL MATHEMATICS @ Duke University Summer Summer 2022

## PROJECTS, VOLUNTEERING, & WORK EXPERIENCE

- RESEARCH INTERN @ Harvard University Fall 2024-Present
- ◇ 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.
- 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
- 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
- ◇ 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
- 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

## PUBLICATIONS, PATENTS & ACADEMIC CONFERENCES

- PRESENTER: NEURIPS 2024 WINNER @ VANCOUVER, CANADA 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: In peer review 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