Rohan Rajappan

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Education

CASE WESTERN RESERVE UNIVERSITY Cleveland, OH
GPA: 4.00 August, 2023 – Present
B.S. Candidate in Computer Science; B.S.E. Candidate in Materials Science and Engineering

SIMSBURY HIGH SCHOOL Simsbury, CT
GPA: 4.4 August, 2019 – June, 2023

Work Experience

SDLE RESEARCH CENTER, CASE WESTERN RESERVE UNIVERSITY Cleveland, OH
Undergraduate Research Assistant October 2023 - Present
- Created Python programs to analyze large data sets on an HPC Cluster.
- Applied Machine Learning and edge detection algorithms to mark defects in laser powder bed fusion.
- Implemented JSON-LD files for FTIR Spectroscopy instruments.

MALTZ PERFORMING ARTS CENTER Cleveland, OH
Production Assistant September, 2023 - Present
- Applied prior experience on a lightboard to design cues for shows.
- Gained technical experience in sound and recording shows.

FREELANCING
Math Tutor June, 2023 – September, 2023
- Connected with families to help students achieve higher scores on the SAT.
- Marketed tutoring to families and organized plans up to test date.

Leadership and Activities

CASE WESTERN RESERVE UNIVERSITY Cleveland, OH
Case Rocket Team September, 2023 - Present
- Designed and built a rocket to attain an L1 certification.
- Led surface preparation on printed parts to layup carbon fiber for the competition rocket.
- Prepared an L2-sized rocket to test code and values for airbrakes software.

Undergraduate Student Government September, 2023 - Present
- Acted as the caucus liaison for the Case School of Engineering, bringing information to the general assembly.
- Developed and presented a concept for an admissions event.

SIMSBURY HIGH SCHOOL Simsbury, CT
Student Council - Class President October, 2019 – June 2023
- Spearheaded committees, communicating with school administrators to plan two proms and a class gift.
- Raised, organized, and spent thousands of dollars to improve class activities.

Apps for the Community [President, Founder] January, 2021 - June 2023
- Founded a club based on using programming skills to create apps for local non-profit organizations.
- Communicated with leaders of non-profits to develop apps and programs.

FIRST Robotics – Co-Captain [2022-2023] September, 2019 – June, 2023
- Trained a team of students through wiring and programming a robot in Java with WPILIB.
- Communicated continuously with Mechanical, CAD, and Finance sub-teams to work on separate parts at once.

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Volunteering

TOWN OF SIMSBURY   Simsbury, CT
Simsbury Diversity, Equity, and Inclusion Council   June, 2022 – June, 2023
- Provided insight as a high-school representative.
- Led social media outreach and coordinated all volunteers.
- Planned and staged the first and second town-wide Juneteenth Celebrations.

VIRTUALLY
Schoolhouse.World – Tutor and Auditor   September, 2022 - Present
- Supported students through a free, peer-led tutoring program.
- Hosted live help sessions and 4-week SAT Bootcamps.
- Audited sessions on a virtual platform to provide peer feedback and ensure safety.

Honors and Awards

SIMSBURY HIGH SCHOOL   Simsbury, CT
Computer Science Honor Society - President [2022-2023]   September, 2021 – June, 2023
- Organized, scheduled, and presented meetings to center the chapter around service.
- Created curricula to teach younger students about computer science.
- Taught lessons for the hour of code to elementary students.

National Honor Society - Vice President [2022-2023]   October, 2021 – June, 2023
- Spearheaded and operated four successful blood drives with the American Red Cross.
- Aided in organizing meetings, fundraisers, and group communication.
- Supported local events to aid natural disaster relief, Ukraine, and hunger within the community.

Mu Alpha Theta [Math Honor Society] - Vice President [2022-2023]   January, 2022 – June, 2023
- Tutored students who would like support ranging from Geometry to Precalculus.
- Organized fundraising to help support students pursue higher math knowledge.
- Communicated alongside other leaders to schedule and present meetings.

Other Honors and Awards:
- AP Scholar with Distinction.   July, 2022; July, 2023
- Computer Science Department Award, Simsbury High School.   June, 2023
- NSDAR, Abagail Phelps Chapter - Good Citizen Award.   November, 2022
- Simsbury Scholar, maintained high honors or top 5% of my class.   August, 2020 – June, 2022
- NAfME - National Association for Music Education, All National Honor Choir Member.   January, 2022

Skills and Certifications

- Java
- HPR L1 Certification
- Python
- Data Structures
- MATLAB
- Web Development
- R/RStudio
- SOLIDWORKS