Niteesh Kalangi

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Volunteer Service

Sep 2021 - Present

Town Community Fund Council Member
Hartford Foundation
Grade 11, 12
1 Hrs/Week
Total Hours: 30

Planned ways to aid nonprofits in Glastonbury. Helped raise $27,000 through fundraisers, recruited 30+ volunteers, and campaigned on social media. Met with Glastonbury residents to distribute funds to nonprofits in Glastonbury of our choice.

Aug 2021 - Jan 2022

Website & Technology Team Project Manager
Seaside Sustainability
Grade 10, 11
15 Hrs/Week
Total Hours: 255

Designed and headed the Sustainability Calculator project: a web application that calculates an individual's carbon footprint and provides suggestions to reduce carbon footprint. Helped develop the application. Created and distributed development tasks among the tech team interns. Conducted interviews and evaluated applicants for the tech team. Also helped create advocacy campaigns for single-use plastic legislation in cities.

Jul 2021 - Aug 2021

Supervisor
Camp Sunrise
Grade 10
40 Hrs/Week
Total Hours: 80

Supervised and engaged children with mental disabilities in camp sunrise. Planned group activities for these children.

Nov 2015 - Present **Youth Leader**
Desis Around Connecticut
Grade 6, 7, 8, 9, 10, 11, 12
1 Hrs/Week
Total Hours: 100

Helped organize the annual Connecticut Diwali Event. Organized youth competitions leading up to the event, anchored during the event, and served food for all of the guests.

Extracurricular Activities

May 2022 - Present **President: GHS Varsity Math Team**
Grade 9, 10, 11, 12
1 Hrs/Week
Total Hours: 25

Led meetings, prepared the team for contests, formed the rosters for competitions. Competed on the varsity A team for 4 years, reaching 3rd and 5th in states.

May 2022 - Present **Vice President: GHS Science Olympiad**
Grade 9, 10, 11, 12
1 Hrs/Week
Total Hours: 25

Helped run meetings and instructed new members in their events. Participated in 8 science olympiad events and 5 conferences. Received 1st place for remote sensing event in CT Science Olympiad.

Sep 2021 - Present **Researcher at the UConn Lab of Machine Learning and Health Informatics**
Grade 11, 12
2 Hrs/Week
Total Hours: 160

Conducted research to use machine learning to predict clinical status in healthy and schizophrenic adults. Engineered the necessary data for the research by wavelet-transforming time-series data to time-frequency plots. Created a machine-learning model to predict clinical status with accuracy of 75% (improved by 25%). Met weekly with the research team to generate ideas. Worked with Dr. Jinbo Bi, Professor of Computer Science at UConn, and UConn graduate students to complete the project. Project awarded the Pfizer Computational Biology Research Award.

Aug 2021 - Present   **Founder and Developer of MentalityPeak**
Grade 11
3 Hrs/Week
Total Hours: 61

Created a web application to reduce short-term and long-term stress in a fully personalized way. Also uses social media to spread awareness about mental health issues. Winner of the 2021 Congressional App Challenge. Featured on the U.S. House of Representatives website. Endorsed by Congressman John Larson in the U.S. Congressional Ways and Means Committee. Demonstrated the application in Glastonbury Board of Education Meetings, Congressional Conventions, and local camps such as Heads up Hartford. The application is used in Glastonbury High School in the Student Support Center as a suggested resource.

May 2021 - Present   **President: GHS Science Bowl**
Grade 7, 8, 9, 10, 11, 12
1 Hrs/Week
Total Hours: 47

Led meetings, organized events with other schools. Led the GHS Science Bowl A team, placed 5th in Department of Energy CT Science Bowl Competition, 1st in Connecticut Science Bowl League.

May 2021 - Present   **Secretary: GHS Model United Nations**
Grade 8, 9, 10, 11, 12
1 Hrs/Week
Total Hours: 40

Attended 8 conferences, won 6 MUN awards, including 2 best delegates. Helped run meetings by creating presentations and preparing the team for upcoming MUN conferences.

Dec 2020 - Present   **Founder and President: GHS Coding Club**
Grade 10, 11, 12
1 Hrs/Week
Total Hours: 70

Taught coding to 50+ members annually. Won individual and team awards at the American CS League and Lockheed Martin Code Quest national competitions.

Jun 2020 - Aug 2020   **Machine Learning Intern at Day One Technologies**
Grade 10
15 Hrs/Week
Total Hours: 120

Used unsupervised machine learning to create a neural network that recognizes anomalies in factory layouts and operation. Processed and standardized thousands of factory images. Designed the architecture for the neural network.

Awards

Sep 2022

Certified Solutions Architect Associate: Amazon Web Services
Grade 12

Learned the essentials of the Amazon Cloud, and received an 85% on the Amazon Cloud Practitioner exam. Afterwards, I learned and practiced devising cloud computing solutions to potential customer needs, and received an 80% on the Amazon Solutions Architect Associate Exam

Jul 2022

AP Scholar With Distinction
Grade 9, 10, 11, 12

Demonstrated high performance on Advanced Placement subjects and their respective AP exams

Jun 2022

Harvard Book Award
Grade 11

Received this award because I have "achieved academic excellence, possess exceptional personal qualities, and have made significant contributions to my school and community."

Apr 2022

Finalist: American Computer Science League
Grade 11

Finished as the top scorer in my school, and became a finalist in the American Computer Science League

Mar 2022

1st Place: Connecticut Science Olympiad Remote Sensing Event
Grade 11

Used remote sensing images, such as photographic and spectroscopic information, to analyze data and make climate models.

Mar 2022

5th Place: Connecticut State Science Bowl
Grade 9, 10, 11, 12

Captained Glastonbury High School Science Bowl's A team for two years to achieve a 5th place finish in the Connecticut State Science Bowl.

Mar 2022

Pfizer Computational Biology Award, PepsiCo Life Sciences Medalist, First Honors: Connecticut Science and Engineering Fair
Grade 11

Recognized in the Connecticut Science Fair for my research project using machine learning to predict schizophrenic vs healthy neural activity. Was evaluated based on two scientific interviews, my research poster, and my research paper. Ranked within the top 3 percent of research projects at the science fair. Ranked in the top 10 life sciences projects in the science fair.

Jan 2022

President's Volunteer Service Award Gold Level
Grade 11

Volunteered for over 250 hours in the span of 6 months at the nonprofit Seaside Sustainability in order to help them spread awareness about plastic use and the dangers to our coastal waters.

Dec 2021

2021 Congressional App Challenge Victory, Congressional Certificate of Honor
Grade 11

Won the 2021 Congressional App Challenge for District CT01 with the MentalityPeak application that reduces situational stress and spreads awareness about mental health issues. The Glastonbury Board of Education and Congressman John Larson awarded this certificate.

Nov 2021

Best Delegate: Fairfield Area Model United Nations
Grade 11

Participated in the historical U.S. Congress committee as Bernie Sanders addressing the issue of health care.

Apr 2021

1st Place: Lockheed Martin Code Quest
Grade 10, 11

Participated in a competitive programming competition hosted by Lockheed Martin with 55 teams from schools in the New England area and won 1st place in my division

Mar 2021

4th Place: Quinnipiac University Coding Competition
Grade 10

Participated in a competitive programming competition hosted by Quinnipiac University with 20 teams from schools in the state of Connecticut and won 4th place

Nov 2020   **Best Delegate: Connecticut World Affairs Council Model United Nations**
Grade 9, 10, 11, 12

Debated as the Czech Republic on the issue of nuclear proliferation in the DISEC committee of the Security Council.

Athletic Achievement

Mar 2021 - Present   **All State, All Central Connecticut Conference Varsity Tennis Player**
Grade 10, 11, 12
14 Hrs/Week
Total Hours: 200

Captained the GHS Varsity Tennis Team. Played in the Wesleyan University State Tournament Invitational. Led my team to a Connecticut Class LL Semi-Final finish.