

# Shaunak Kapur

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## EDUCATION

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### SEVEN LAKES HIGH SCHOOL

August 2020 - May 2024

**Relevant Coursework:** AP Computer Science A, AP Computer Science Principles, AP Physics 1, AP Psychology, AP Environmental Science, AP Macro Economics, AP Micro Economics, AP Statistics, AP English Language and Composition, AP Spanish Language and Culture, AP Government, AP World History, AP US History, AP Art History,

#### **National Honor Society**

**English National Honor Society (President)** - I plan various seminars and a variety of literary analysis group events on different literature topics from different time periods, run donation drives that donate thousands of books to school libraries in Africa, and do free SAT tutoring and English language tutoring for non-native speakers.

**Science National Honor Society (Vice-President)**- I plan science-related labs on different topics within fields like Medicine, Computer Science, Physics, and Chemistry. I also organize STEM showcase events and run a school-based science journal that has research projects and papers.

#### **Mu Alpha Theta (Math Honor Society)**

## EXTRACURRICULAR ACTIVITIES

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**Future Problem Solvers:** created a nonprofit organization with a project that focused on raising awareness for public health; hosted multitudes of supply drives for local nonprofit clinics and orphanages, developed a virtual curriculum by partnering with local Fire and EMS departments, worked with state representatives, senators, and federal government members to address health advocacy, and gave seminars to students in rural and low-income schools; so far reached/impacted almost 760+ individuals  
**(Co-president)** - since 2022

**NASA HAS (High School Aerospace Scholars Program 2022-2023 student):** Completed multi-module course which covers NASA programming, past missions, current technology uses, CAD design principles, and math-related space measurements.

**Technology Students Association:** Competing in: Webmasters: designing a space-tourism-themed website, Biotechnology: researching and developing biotechnology-based solutions to basic problems like elongated food preservation- since 2022

**Model United Nations:** Participated in various conferences where I worked to resolve modern-day issues relating to poverty, environmental pollution, spacecraft liability, border conflicts, and the spread of disease. **(Vice-president)** - since 2021

**Robotics:** VEX Robotics: built individual mechanical systems like launchers, intakes, and climbing arms within robots and helped program autonomous systems in robots, FRC Robotics: worked on the electrical circuit design and built structural chassis. **(VEX Robotics Co-President)** - since 2019

**Boy Scouts:** Been a part of scouting since I was 5 years old and am an Eagle Scout, I donated 1000+ books to primary and secondary schools in Africa for my Eagle Project and earned over 21 merit badges including the First Aid, Emergency Preparedness, and Public Health merit badges. **(Patrol Leader for 1 year and Instructor for 3 years)** - since 2011

**(Achievements in all clubs listed in the Honors and Awards Section)**

## HONORS AND AWARDS

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### -Robotics;

#### **VEX;**

2021-2022 3rd place in Robot Skills at the Texas VRC State Championship

2021-2022 Qualified for World Championships

2022-2023 Qualified for UIL Texas State Championship

2022-2023 Qualified for Texas VRC State Championship

2022-2023 Alvin ISD Regional Tournament Champions

2022-2023 Energy High School Regional Judges Award

2021-2022 Katy Winter Classic Regionals Tournament Champions

2021-2022 North Houston Tipping Point Regionals Tournament Champions

**FRC;**

2021-2022 World Championships, 11th place (overall)  
2021-2022 Texas District Championship, 5th place  
2021-2022 Texas Robotics Invitational, 8th place  
2021-2022 FIT District Channel-view Regional competition, 4th place  
2021-2022 FIT District Pasadena Regional competition, 4th place

**-Technology Students Association;**

2022-2023 2nd in Webmasters at Texas State Competition; 2022-2023 2nd in Biotechnology at Texas State Competition; 2022-2023 2nd in Biotechnology at Houston Regionals; 2022-2023 1st in Webmasters at Houston Regionals

-Presidents Volunteer Service Award (Gold)

-2022-2023 5th place in Texas for Future Problem Solvers, Community Problem solving project (Health Educators organization)

-2022 Honorable Mention (3rd place) at Houston Area Model UN Conference (Committee-SPECPOL) for spacecraft policy and satellite liability

-2020 First place at FBLA Texas State Conference in Business Plan

-2019 Winner of NASA Cassini Scientist for a Day Competition

-2017 Semi-finalist of NASA Cassini Scientist for a Day Competition

**SKILLS AND OTHER ACTIVITIES**

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**Languages:** English, Spanish, Hindi

**Programming Languages:** Java, JavaScript, Python, C++, HTML, (Basics of R)

**External Courses:** 4-month ISAE-SUPAERO online non-credit course: Basics of Flight Mechanics (The Basis, Lift and Trajectory, Propulsive Balance and Energy, Anemo Barometry)

-2 month University of Colorado Boulder online non-credit course: Modeling and Debugging Embedded Systems and Basics of Quantum Mechanics

**Internships:** General Electric Engineering internship program (2022), SAP Cybersecurity Virtual Internship Program (2022), RoboHub Volunteer/Internship (2023)

**Research:**

(USC BUGS JR) University of Southern California Computational Data Research Intern (2023)

University of Houston Machine Learning Research Intern (2023)

Texas A&M Biomedical Engineering Research Intern (2023)