

# Arjun Vasudevan

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## EDUCATION

Class of 2024      **Fort Worth Country Day**  
Fort Worth, Texas

Class of 2028      **Carnegie Mellon University**  
Information Systems B.S.

## Major Projects

- 10th-12th      **Como Community Center Robotics Founder/Director**
- Founded a bespoke robotics program for underprivileged children at the Como Community Center.
  - Raised over \$3,000 from my school for my efforts as reserve funding and had the whole project (over \$5,000) funded by the Fort Worth ISD.
- 11th-12th      **Solar Car Founder/Captain**
- Started FWCD Solar Car Team, liaised with administration to get the project approved.
  - Grew the team from 3 to over 30 members. Lead the team to an overall third place victory, securing first place for miles traveled on the second competition day.
  - Managed over \$20,000 in funds, organized and created contracts with companies for sponsorships.
  - Selected by the Texas Solar Car Challenge to present at the 2023-2024 Inaugural workshop, having been one of the only first year teams to qualify in the history of the challenge.
  - One of only four teams asked to display at EarthX 2023, with over 300,000 attendees, won the best display award.

## EXTRACURRICULARS

- 9th-11th      **Soccer Team Captain**      **12 hrs/week for 14 weeks**
- Selected out of over 40 players by my coach to lead team practices, design effective drills, and manage various logistical aspects of the team.
  - Maintained team morale during tight matches and encouraged a sense of togetherness through motivating pep talks.
- 10th-12th      **FWCD Competitive Coding Team Captain**      **3 hrs/week for 30 weeks**
- Revived the program, which had fallen apart years before I attended.
  - Won first place in Lockheed Martin's CodeQuest 2023.
  - Secured multiple first place victories at local and state level competitions (e.g. CyWood, Richardson, UT Dallas, Trinity Valley).
  - Learning complex data structures and algorithms in order to supplement knowledge and train the team.
- 9th-11th      **FWCD Latin Club Captain**      **3 hrs/week for 36 weeks**

- Captained FWCD Intermediate and Advanced team during all eligible years (years taking Latin).
- Led team to regional and state level NJCL victories (e.g. 1st at Baylor Latin Day consecutively all three years, 1st in Texas at certamen, 1st at St. Marks friendly tournaments consecutively all three years).
- Mentored underclassmen and middle school teams, teaching proper strategy and technique.
- Supported after school practices and encouraged the team even after close defeats.

11th-12th

### **M3 Modelling Challenge Team Captain**

**14 hr/week for 2 weeks**

- Learned advanced mathematical modeling techniques, teaching my team how to apply them.
- Prepared and entered into a 14 hour competition, solving the problem and submitting a solution for the first time in our school's history.
- Integrated computer science techniques and statistical visualizations, leading to positive review comments from several leading mathematicians.

9th-12th

### **TCU Music Preparatory Violin Student**

**4 hrs/week for 40 weeks**

- Part of the TCU music preparatory program, one of under twenty students enrolled in the intensive curriculum.
- Consistently awarded Bronze or Silver medals, indicative of levels of participation in the violin program.
- Competes in competitions, and was recruited for the Fort Worth Philharmonic Orchestra.
- Learning both classical suzuki violin and contemporary pieces, expanding my repertoire to over thirty pieces.

## **SKILLS, HOBBIES, & ACCOMPLISHMENTS**

10th-12th

### **Vintage Computer Restoration**

- Restored an Apple IIe, IBM 5100, and multiple Xerox and Commodore systems. Scoured the internet for resources, reaching out to numerous forums and becoming an active member in the community.
- Learned and am now competent in APL, BASIC, and 6502 Assembly Language.
- Gained familiarity with electrical instruments like analog oscilloscopes, CRT assemblies, and beamspring keyboards.

## **SUMMER ACTIVITIES**

9th-10th

### **WPI Summer Robotics Course**

**40 hr/week for 3 weeks**

- Gained exposure to C++ and mBot programming languages.
- Worked in teams to solve complex problems with cyber physical systems.
- Completed all challenge courses and placed 2nd out of 18 at the final race challenge.

10th-11th

### **UT Austin Summer Robotics Course**

**40 hr/week for 4 weeks**

- Continued exploration in C++.
- Gained intermediate knowledge in ROS.
- Worked with a variety of students to both help them and compete against them.

## **HONORS & AWARDS**

12th

### **National Merit Semifinalist**

- Only student at Fort Worth Country Day to have qualified based on PSAT/NMSQT score (1500/1520).

10th

**Mu Alpha Theta member**

- Nationally recognized honors society for consistency and excellence in math.
- Inducted a year prior to the average inductee due to my superior mathematical ability, having taken the advanced prerequisite courses early.

9th

**National Latin Honor Society**

- Nationally recognized honors society for consistency and excellence in Latin.

11th

**Undergraduate Latin Award**

- Selected out of over 300 undergraduates. Awarded due to both exceptional academic dedication but also extracurricular involvement.

9-12th

**AP Scholar with Distinction**

- Achieved the highest level of honors nationally that the College Board awards for exceptional performance on AP tests.

9-12th

**High Honor Roll**

- Maintained a 90 GPA or higher every single semester