

Vansh Bhatt

1601 Wesley Dr.

Allen, Texas

bhattvansh1107@gmail.com

469-476-8407



Education

Allen High School

August 2021 – May 2025

- Weighted GPA: 4.04/5.00
- Class Rank: 352/1582

Extracurriculars

NASA HUNCH (High Schools United with NASA to Create Hardware) (Position: Project Lead Developer)

11th grade 5-18 hrs/week | 78 weeks

- Took part in a competition where NASA hands a problem in a selection of different topics and a team has to create a pitch of the solution.
- Brainstormed and created pitches for effective file sharing protocols for sending data to the moon and back without data hack or corruption
- Learned and developed extensive cybersecurity protocols for competition
- Designed and created project website
- Designed, engineered, and programmed physical demo of satellite tracking turret that tracked motion and moved physically in same direction as detected object
- Used Python, OpenCV libraries, Stepper Motors, RasperryPis, and Adafruit Sheild Board
- Learned to engineer with 3D printers and CNC Machines
- Team presented in Nationals at NASA Johnson Space Center in Houston, TX

Lowery Freshman Center FTC Robotics (Position: Programming Lead)

9th grade 6 hrs/week | 21 weeks

- Worked on both building and programming a robot from scratch to compete in FTC competition
- Led team of four other programmers to creation bot
- Tested, debugged, and drove robot to perform series of tasks such as grabbing objects and turning wheels
- Used skills in Java and displayed effective teamwork and leadership strategies
- Competed in February of 2021

iCode School (Position: Intern)

10th grade 4hrs/week | 4 weeks

- Volunteered and helped instructors in summer camps to teach numerous computer skills to kids K-12
- Communicated with parents at the end of the week on children's skills
- Had 16 volunteering hours

Toys for Texans (Position: Social Media Manager)

10th grade 7 hrs/week | 21 weeks

- Used various skills in video editing, photoshopping, and graphics design
- Created 100+ posts for student-led non-profit
- Helped contribute \$5k-10k worth of toy donations for children in need across Texas

DECA (Position: Member/Competitor)

11th grade 2 hrs/week | 17 weeks

- Stepped out of comfort zone and learned about numerous skills and lessons in a different field
- Studied hospitality/tourism
- Learned how to pitch business ideas in short time and under pressure
- Used problem-solving strategies to tackle problems regarding topics in hotel management or tourist marketing

Launchpad EDU (Position: Lead of Curriculum)

11th grade 4 hrs/week | 12 weeks

- *Helped launch STEM startup for children*
- *Developed 50+ hours of content for the non-profit STEM school*

Research

Machine Learning Engineering at Cambridge Future Scholar Program (Position: Student Researcher)

12th grade 3-14 hrs/week | 13 weeks

- Worked and collaborated with Harvard Schmidt Science Fellow Dr. Hannah Rana and University of Cambridge Research Student Arun Kumar
- Learned and researched uses and development of Machine Learning models
- In support of Dr. Rana and Mr. Kumar, started research on Star Classification types with Hertzsprung-Russell diagram and the creation of a classification model
- Used scikit-learn, supervised learning, and random forest model to classify stars based off their temperature, luminosity, radius, star color, and spectral class
- Trained off of 400+ data points
- Performed perfectly (1.0 r^2 value)
- Created presentation to demonstrate my findings to Dr. Rana and fellow peers (<https://bit.ly/MLEngVBPresentation>)

University of Texas at Dallas Research Workshop (Position: Internship/Student Researcher)

12th grade 3 hrs/week | 9 weeks

- Worked with a UTD professor on analyzing search algorithms and data algorithms in Java
- Created and showcased different uses of code that can minimize search algorithm time complexity

Work

iCode School (Position: STEM Instructor)

11th grade and 12th grade 6 hrs/week | 90 weeks

- Instructed kids K-12 in a variety of coding skills like Python, HTML, and Java all the way to engineering with 3D design
- Instructed over 30 classes
- Worked with parents and sent emails at the end of each week on each student's progress as well as an extensive report on what was covered in class.
- Was able to stay active in my community by creating an impact on children

Honors and Awards

NASA Hunch National Software Finalist

11th grade

- Awarded to the select few teams who had the opportunity to present their creative solutions to actual NASA Engineers to possibly have their idea on the International Space Station

Allen ISD Eagle Scholar College Readiness Standard

10th grade

- The Eagle Scholar award is awarded to students who display academic achievement in various areas in school

National Honor Society

12th grade

- Students are qualified through academic achievement and recognized at a school level

Clubs and Organizations

Computer Science Forum

11th grade – 12th grade

- Partook in club activities that included tutoring underclassmen computer science students, lecturing students on Machine Learning, and judging hackathons

Volunteering

Toys for Texans Thanksgiving Fundraiser

10th grade 4 hours

- Raised money by selling hot chocolate to supply children in poverty with donation money for toys

North Texas Food Bank

10th grade 3 hours

- Packaged food into boxes for people in poverty in the Dallas-Fort Worth area

DECA Canned Foods

11th grade 2 hours

- Donated canned items and sorted and organized them into boxes to later transport them into trucks that deliver them to people in poverty

Eagle Give Day

10th grade 2 hours

- A school ran fundraiser where some students were able to help transport boxes into trucks full of donated items

Skills

- **Parent and Children Communication**
 - Obtained through working with various clients at iCode
- **Languages**
 - English, Gujarati, Hindi
- **Problem Solving**
 - Acquired through various programming projects
- **Leadership**
 - Demonstrated through NASA Hunch and FTC Robotics
- **Photo and Video Editing**
- **Python, HTML/CSS, Java**

AP Scores

AP Human Geography: 4

AP World History: 4

AP United States History: 4

AP Statistics: 4

Personal Projects

Personal Website:

<https://theogflamez.github.io/PersonalWebsite/>