

Hyunmin Yoo

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EDUCATION

08/22 - 05/26

Vista Ridge High School (VRHS)

Cedar Park, Texas

Weighted GPA: 5.096

Graduating with Distinguished Honors

SAT: 1450 (M: 760; R: 690)

AP Exams: Computer Science A: 5, Calculus BC: 4,

Statistics: 4, Physics 1: 4

Autodesk Certified User-Inventor (ACU-Inventor)

- Certified for demonstrating knowledge of creating, modifying, formatting, and sharing 2D sketches as well as creating parts

IT Java Specialist (Certiport)

- Certified for ability to recognize, write, and debug Java code that will logically solve a problem

Google Data Analytics Professional Certificate (Coursera)

- Completed a Google-designed, eight-course program with hands-on projects, gaining proficiency in data preparation, analysis, and visualization using tools like spreadsheets, SQL, Tableau, and R

RESEARCH

11th - 12th

Inspirit AI Research Mentorship Program

4 Hrs/Wk

Research Mentee Under Anjali Sinha, MA

13 Wks/Yr

- Created an AI program that diagnoses issues within a robot by comparing the data of the robot to the data of the dataset of failures
- Analyzed data to streamline the process of robotic malfunction identification
- Composed a research paper at the end and published the project
- <https://github.com/Ca2lumG/Machine-Learning-Model-Comparison-for-Robot-Diagnosis>

10th

UT Austin High School Summer Research Academy

4 Hrs/Wk

RobIn Student Researcher

5 Wks/Yr

ACTIVITIES

9th - 12th	<ul style="list-style-type: none"> Constructed a BaRiFlex arm (Robotic Arm) using 3D printer with given instructions Programmed codes for recording demos, training the robotic arm, and running the robotic arm Recorded over 60 pieces of data of human motions to give sample data to the model for purpose of duplicating the human motion Presented slideshow of research progress to audiences of UT Austin visitors 	
	VRHS Robotics - Static Void, Victorian Voltage <i>Member</i>	10 Hrs/Wk 30 Wks/Yr
10th - 12th	<ul style="list-style-type: none"> Programmed navigation codes in Android Studio for team robot, allowing the robot to automatically navigate its way to the game elements Fine-tuned the variables in the robot control system to optimize its game performance Supported hardware team to assemble the robot 	
	VRHS eSports Club <i>Vice President (11th)</i>	2 Hrs/Wk 20 Wks/Yr
	<ul style="list-style-type: none"> Organized weekly after-school practice and club meetings by creating a Google form to assess availability Hosted the weekly meeting at school that gave a space to introduce and communicate with each other members 	
	<i>Member (10th)</i>	
	<ul style="list-style-type: none"> Participated as a player at weekly practices to develop decision-making and communication skills 	
12th	UT Austin Computer Science Academy for All Machine Learning <i>Participant</i>	40 Hrs/Wk 1 Wk/Yr
	<ul style="list-style-type: none"> Gained understanding of use of Python in machine learning Discovered knowledge of LDOS (Learning Directed Operating System) Created a machine learning model by using a LDOS that later was used to predict the result of the dataset given by the academy 	
9th	University of Texas at Austin Academy for Robotics <i>Participant</i>	40 Hrs/Wk 1 Wk/Yr
	<ul style="list-style-type: none"> Developed an understanding of basic coding structures to understand robotics programming software more effectively Crafted the main board for a robot by soldering the parts given to the board 	

11th - 12th	<ul style="list-style-type: none"> Assisted in the construction of a robot, that reads the color below by sensor, by assembling the parts 	8 Hrs/Wk 30 Wks/Yr
	VRHS Student Technology Team <i>Member</i> <ul style="list-style-type: none"> Diagnosed and repaired students' and teachers' software/hardware issues to school-related devices Attended daily meetings to hear updates and complete repairs to devices Gained skills to fix issues by continuing practices and repair 	
11th - 12th	Vista Ridge High School Machine Learning Club <i>Member</i> <ul style="list-style-type: none"> Crafted a proposal for possible implementation of sorting AI in school Discussed strategies to implement proposal into the real school system 	1 Hr/Wk 20 Wks/Yr
9th	Leander ISD Summer Robotics Camp <i>Participant</i> <ul style="list-style-type: none"> Learned basic coding system of an autonomous and controlled robot Gained knowledge of how to write codes for a robot in Android Studio Actualized robot that earned 3rd place in robotics camp competition <ul style="list-style-type: none"> Robotic completed tasks like grabbing blocks or launching designated objects 	7 Hrs/Wk 1 Wk/Yr
9th	Inspirit AI Winter Camp <i>Participant</i> <ul style="list-style-type: none"> Practiced multiple Python coding questions with the guiding material to learn basic coding Conceptualized and created an AI program using Python which compares an exoplanet and non-exoplanet to uncover a difference between those two planets 	3 Hrs/Wk 2 Wks/Yr
11th - 12th	Inspirit AI Ambassador <i>AI Educator</i> <ul style="list-style-type: none"> Introduced and explained AI and its potential usage to other students, teachers, and parents through presentations Promoted organization by sending emails to boost enrollment 	1 Hr/Wk 8 Wks/Yr
9th - 12th	Six Blades Jiu-Jitsu <i>Student Athlete</i> <ul style="list-style-type: none"> Participated in classes that developed social ability and physical strength Practiced 3 times a week and had practice sparring with other people at the end of the week 	3 Hrs/Wk 30 Wks/Yr

11th - 12th	VRHS AP Ambassador <i>Member</i> <ul style="list-style-type: none"> Presented the benefits of AP courses at VRHS to students and parents Utilized previous knowledge of AP courses to share advice with potential AP students 	3 Hrs/Wk 20 Wks/Yr
VOLUNTEERING		
11th - 12th	Austin Korean School <i>Substitute Teacher</i> <ul style="list-style-type: none"> Assisted as a volunteer to help students learn about Korean language and culture Instructed as a substitute teacher, assisting the teachers with events and supervising the students 	4 Hrs/Wk 13 Wks/Yr
HONORS & AWARDS		
10th	FTC Robotics Semi Regional Competition Motivation Award - 1st Place <ul style="list-style-type: none"> Awarded to the team that has significant involvement in outreach that demonstrates their knowledge of computer science, robotics, and FTC robotics 	
11th	FTC Robotics Semi-Regional Competition Control Award - 1st Place <ul style="list-style-type: none"> Awarded to the team that demonstrated the innovative use of software to enhance robot functionality, focusing on consistent and reliable control systems to solve game challenges 	
11th	FTC Robotics League Champions Control Award - 1st Place <ul style="list-style-type: none"> Awarded to the team that demonstrated the innovative use of software to enhance robot functionality, focusing on consistent and reliable control systems to solve game challenges 	
10th	NAGA Grappling Championship Bronze Medal <ul style="list-style-type: none"> Earned Bronze medal at regional Jiu-Jitsu competition 	
11th - 12th	Vista Ridge High School Mu Alpha Theta <i>Member</i> <ul style="list-style-type: none"> Earned membership to math honor club that is made to promote the further use of math in our society Qualified by writing an essay related to implementing math into different subjects 	
SKILLS		
	Coding <ul style="list-style-type: none"> Java <ul style="list-style-type: none"> Working Proficiency 	

- Python
 - Working Proficiency
- C
 - Beginner Proficiency

Languages

- Korean
 - Heritage Speaker