

# Karthikeya Vattem

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## Education

AUGUST 2022 - MAY 2026

### **Independence High School** - *High School*

Frisco, TX

- Full-time student
- 4.0 GPA, top 1% of class (rank 4)
- Notable Courses: AP Computer Science Principles, AP Physics 1, AP Statistics, AP Calculus BC, AP World History, Independent Study & Mentorship

AUGUST 2023 - MAY 2026

### **Stanford Online High School** - *Part-time High School*

Remote

- Part-time student
- Notable Courses: Astrophysics, Astronomy Research Seminar, Multivariable Calculus

## Test Scores

**SAT** - 1590

**PSAT** - 1520

**ACT** - 36

**AP Scores** - 5 on exams such as *Physics 1, Calculus BC, Statistics, World History*

## Experience

MAY 2024 - JULY 2024

### **University of Texas at Dallas** - *Remote Summer Intern*

Remote

- Learned data analytics in a business intelligence context
- Studied and applied key data science and business analytics concepts, including Tableau, SQL, and traditional data concepts in the context of business

AUGUST 2023 - Present

## **Pebble Education Inc. – *Cofounder***

Remote

- Contributed to an app that simplified existing videos to assist special needs students with educational tasks such as learning mathematical concepts and comprehension
- Supervised and judged two large hackathons with corporate sponsors

JULY 2023 - Present

## **Academic Empowerment Project, Inc. – *Founder, President***

Remote

- Administered 200 students who were matched with volunteers for online tutoring
- Coordinated with volunteers, students, and parents to ensure the smooth operation of the nonprofit's educational services and classes
- Spearheaded company events such as CS boot camps and education projects

## **Certifications and Licenses**

MAY 2024

### **TestOut Linux Pro Certification**

TestOut Corporation

- Obtained as a part of BPA National Leadership Conference, where the certification was a requirement for competition at the national level
- Passed certification and won first place at the national competition

## **Publications**

JANUARY 2024 - APRIL 2024

### **Astrometric Measurements of Double Star Systems HEI 915, GRV 719, STI 2170, and RST 2531.**

The Journal of Double Star Observations

- Developed a paper with classmates and published it in an astronomy journal

## **Activities**

2012 - Present

### **Taekwondo**

ATA Martial Arts

- Achieved 3rd degree black belt
- Regular instructor
- Required running full classes and teaching many students

- Developed leadership skills

2017 - Present

### **Orchestra (violin)**

- Involved in school and other orchestras
- Appointed as publicity officer for school orchestra (2024 - Present)

2024 - Present

### **Hindu Temple IT Volunteer**

Karya Siddhi Hanuman Temple

- Worked on an Internet of Things parking lot project using LoraWAN, AWS, and Python for Telegram API to alert parking lot volunteers of several different events utilizing hardware and software

## **Awards**

MAY 2024

### **BPA National Leadership Conference (Linux Operating System) – *First Place***

Business Professionals of America | Chicago, IL

- Studied core operating systems and computer science fundamentals
- Competed at regionals, states, and the prestigious national level in exams and hands-on tasks; ultimately winning 1st place at nationals and gaining an industry certification

AUGUST 2023

### **TechXCelerate Summer Hackathon – *Second Place***

TechXCelerate | Remote

- Won 2nd place at an international hackathon with a \$60,000 prize pool by building an app to assist special needs individuals; later turned into a nonprofit

FEBRUARY 2024

### **North Central Texas Data Science and Analytics Competition – *Second Place***

Technology Student Association | Mesquite, TX

- Designed statistical experiments to collect data, utilized Python to analyze data from online datasets as well as collected data

JANUARY 2023 & 2024

### **Solo and Ensemble Competition (violin) – *1 (Superior Rating)***

University Interscholastic League | Frisco, TX

APRIL 2023

### **Texas States Technology Bowl – *State Finalist***

Technology Student Association | Fort Worth, TX

- Made it to the finals round of the technology bowl, a quiz-bowl-like competition

- Required learning many general technology concepts and critical skills

FEBRUARY 2024

**North Central Texas Drone Design Competition – *First Place***

Technology Student Association | Mesquite, TX

- Utilized engineering process to design and construct drone from scratch, and pilot it through an intense obstacle course design to test the limits of the drones

AUGUST 2024

**National Rural and Small Town Recognition Program Award Recipient**

College Board

JULY 2024

**AP Scholar with Distinction Award**

College Board