

MICHAEL YANG

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[linkedin](#)

EDUCATION

Incoming SEAS Davis Scholar at Columbia University, Class of 2030 **New York, NY**
Major: Computer Science

St. Mark's School of Texas, Class of 2026 **Dallas, TX**
GPA: 4.53 (3.92 UW) (*Cum Laude*) SAT: **1560** ACT: **36**

EXTRACURRICULAR ACTIVITIES

Research (10-12)

- Research on Large Language Models and the use in AI-generated content detection, mentored by Computer Science professor Dr Yapeng Tian at the University of Texas at Dallas.
- Analyzed how Multimodal Large Language Models (MLLMs) can be used on complex classification tasks through prompt engineering
- Worked with Python, AWS, PyTorch, Huggingface, and various other libraries, along with a multitude of MLLMs, including but not limited to Gemini, ChatGPT, Gemma, and Qwen.
- Curated a novel reward benchmark used for AI-generated content detection. First-author research paper, Explainable AI-Generated Image Detection RewardBench, was accepted into the GenProCC workshop of prestigious AI/ML conference NeurIPS 2025
- Second research paper submitted to another top conference and awaiting a decision.

Robotics *Co-Founder/Captain (8-12)*

- Qualified for the World Championship three times. Official alumni of Team USA.
- Key contributor for robot design, build, and programming. Founded and led a school robotics team to qualify for the FIRST Tech Challenge World Championship as a rookie team.

AI Club *Founder (11, 12)*

- Led club members in conducting research and applying the latest technology in the AI field. Grew the club to over 30 active members.
- Focused on publishing papers related to AI and computer vision and pursuing passion projects. Notable project was an AI-powered scouting tool used to track water polo players.

COMMUNITY SERVICE

Local Volunteering (9-12)

- Volunteer at the local recreation centers and Genesis Shelters every summer.
- Member of the Volunteer in Plano (VIP), volunteer at libraries, and Plano youth camp.

St. Mark's International Week Committee (11)

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STEM Volunteering

(9-12)

- Mentored and helped start 10+ middle school and high school robotics teams across multiple states and countries
- Set up STEM events and activities at underfunded community centers and schools in the DFW metroplex, ultimately leading to the creation of new teams.

WORK & SUMMER EXPERIENCE

STEM Bridge Research Camp at Univ. of Texas at Dallas

Summer 2023

- 6-week research camp focused on applying AI technology for Autism Behavior Recognition from Videos, mentored by Computer Science professor Dr Yapeng Tian.
- Acquired knowledge on Autism, Computer Vision, and Neural Networks.
- Completed a multi-modal autism detection project to help diagnose early symptoms of ASD from videos by building recognition models using Python, PyTorch, and OpenCV.

Aerospace Internship

Summer 2025

- Working with an aerospace startup, HStar, to develop minibots that can simulate satellite movement in space. Developed a novel pathing algorithm that makes space navigation much more efficient, which is currently being sold to investors.
- Utilized Onshape and Python to design and code the robots. Machined all custom parts and components using both additive and subtractive manufacturing techniques. Built a custom app to run the two minibots. Localization involved fusion between multiple camera sensors.

Paid Jobs

Summer 2025

- Part-time employee of CAVA restaurant, preparing food, working the register, and interacting with customers.
- Swimming instructor, taught beginner swimming lessons for 1st to 5th graders in the DFW metroplex.

HONORS & AWARDS

Robotics Awards

(8-12)

- FIRST Tech Challenge World Championship Inspire Award (2022)
- FIRST Tech Challenge World Championship Connect Award (2023)
- FIRST Tech Challenge Team USA (2023)
- FIRST Tech Challenge Texas State Championship Division Finalist Alliance (2024)
- FIRST Tech Challenge World Championship Qualifier (2024)

Top 20 out of 11,000+ teams at the Carnegie Mellon University PicoCTF competition (2024)

Presidential Community Service Award

(2023,2024)

USACO Silver

(2024)

AIME Qualifier

(2025)