

Rishabh Rengarajan

📞 (469) 704-2102 | ✉️ rishabhreng@gmail.com
🌐 [Linkedin](#) | 🐙 [Github](#)

Education

Rice University

B.S., Computer Science

Houston, TX
August 2025 - May 2029

Cistercian Preparatory School

Graduated class valedictorian with 4.0 unweighted GPA.

2025 National Merit Finalist. 2025 U.S. Presidential Scholars Program Semifinalist.

Dallas, TX
August 2017 - May 2025

Stanford Pre-Collegiate University-Level Online Math and Physics - Linear Algebra (XM511)

Received an A in the course.

Online
June 2024 - August 2024

Experience

AI Safety Lab, University of Texas at Dallas

Research Intern

Researched advanced machine learning techniques for autonomous driving and model safety.

- Published [paper](#) (first co-author) on use of cross-view transformers in autonomous driving.
- Designed and trained novel architecture for 3D object detection using bird's eye segmentation and CenterPoint techniques.
- Evaluated model performance with real-world and simulated datasets (CARLA, NuScenes).

Richardson, TX
June 2024 - September 2024

AI/ML Internship, University of Texas at Dallas

Research Intern

- Built autonomous pathing system combining computer vision with odometry for FRC robot navigation.
- Led workshops for peers on LSTMs and decision tree classification models.

Richardson, TX
June 2023 - August 2023

Mathnasium

Mathematics Instructor

- Tutored K-12 students in math concepts ranging from basic counting to calculus.
- Created supplemental progress reports and provided real-time problem solving guidance.

Irving, TX
June 2024 - December 2024

Leadership & Activities

FRC 6672 "Fusion Corps"

Programming Captain, App Developer

Led programming and app development for a top-performing FIRST Robotics team, specializing in autonomous navigation, control systems, and data-driven strategies.

- Designed and implemented advanced control systems with computer vision, localization, and path-following.
- 2022 World Championship Winner, 2023 Worlds Division & Innovation in Control Award Winner, 2024 Worlds Division Finalist.
- Dean's List Award Nominee.

Dallas, TX
August 2021 - May 2025

Hack Club @ Cistercian

Founder

Established and led a student-run coding organization focused on promoting software development skills, peer collaboration, and open-source contributions.

Irving, TX
August 2024 - May 2025

Texas A&M Power Contest

Team Co-Captain

Served as team co-captain for a statewide mathematical proof-writing competition, leading technical writing and solution design efforts.

- Planned and co-wrote 10 rigorous mathematical proofs for the contest using \LaTeX .
- Placed 2nd statewide.

College Station, TX
October 2024

Skills & Interests

Technical - Java, Python, C++, JavaScript, \LaTeX , ...

Languages - fluent English, conversational Spanish, and a little Latin.

Other Interests - Classical piano, table tennis, fountain pens, obscure board games, chess, Ogden Nash poetry.