

AARIV MODY

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EDUCATION

Cornell University, Ithaca, NY (Current GPA = 4.3)

August '24 - Present

- **Courses:** Differential Equations (MATH 2930), Engineering Probability and Stats (ENGRD 2700), Intro to Special Relativity (PHYS 2216), Lasers & Photonics (AEP 1100), Intro to Experimental Physics (PHYS 1110), Greek Myth Writing Seminar (CLASS 1531)

Pittsford Sutherland High School, Pittsford, NY (GPA = 98.00)

Sept. '20 – June '24

- **Advanced Placement Courses:** World History, Calculus BC, Multivariable Calculus, Computer Science A, Physics C, US History, Statistics, Economics, English Language, Government, Psychology, Chemistry, Biology, Spanish

Summer Advanced Manufacturing Experience, BOCES, Spencerport, NY

July '21

- Received credit from Monroe community college (30 hours/week, Total Hours: 90)
 - Operated industrial machines (lathes, mills, etc.) to manufacture products according to given specifications.
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WORK EXPERIENCE

Intern at Laboratory for Laser Energetics, University of Rochester

July '23 – Sept. '23

- Accepted for the Summer High School Research Program (2023)
- Paid internship offered to 15 highly motivated juniors to experience scientific research.
- Analyzed data taken from the LLE Hydrogen Isotope Separation System for optimization.
- Explored the applications of nuclear fusion as a source of energy

Math Instructor at Mathnasium, Pittsford-Brighton, NY

Aug. '21 – Aug' 24

- Providing one-on-one in-person math instruction to students ranging from 1st to 12th grade.
 - Tutoring up to 4 students per hour, 6 hours/week.
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EXTRACURRICULAR ACTIVITIES (College)

Clubs

• Science Olympiad

Sept. '24 - Present

- Creating tests for the middle and high school invitationals and regionals competitions
 - Making the tests for the Optics and Meteorology Events
 - Managing, volunteering, and grading tests at the regionals and state competitions
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EXTRACURRICULAR ACTIVITIES (High School)

• Science Olympiad

2022 - 2024

- 3rd place for "Optics" in NY State competition 2024
- 1st place for "Detector building" in Monroe County Regionals 2023
- 5th place for "Fermi questions" in NY State competition 2023

• Math League (Monroe County)

2021 – 2024

- Ranked 1st in high school & 5th in Monroe County 2023 & 2024
- Ranked 3rd in NY state math league competition (As part of Monroe County A team) 2023

- **Other**
 - National Honor Society (Vice President) 2023
 - First Robotics and Chess Clubs (Member) 2022

Tennis (JV Captain) (Pittsford Sutherland High School) 2020 - 2024

- Played for Varsity (Doubles) 2023 & 2024
- Competed in the Boys NYSPHSAA State Champions 2024
 - Top 4 teams in the state compete at the US Billie Jean King Tennis Center in NYC
- Played for Junior Varsity (Singles) 2021 – 2022

Link Crew (Volunteer) Aug. '21 – '22

- Selected to help freshman to transition from middle to high school.

Other Activities

- Piano, Trombone, Skiing

ACADEMIC ACHIEVEMENTS/AWARDS

- **Schreiner STEM Merit Scholarship** May '24
 - \$5000 scholarship given to two seniors who intend to major in STEM, and who demonstrate academic prowess, leadership experience, and strong passion.
- **USNCO Chemistry Competition** April '24
 - Achieved 1st place in the county for the local exam and qualified for the national exam
- **PSAT/NMSQT - Semifinalist** (12th Grade) Sep '23
- **Xerox Award for Innovation and Information Technology** (11th Grade) May '23
 - Given to one junior with a strong interest in information technology and for leading other students in innovation.
 - Received Merit Scholarship at the University of Rochester
- **Rochester Institute of Technology** (11th Grade) May '23
 - 1st place in Math Competition (1st out of 46 students from all Monroe County schools)
 - 2nd place in Physics competition
- **Chemistry Achievement Award** (10th Grade) June '22
 - Awarded by the Rochester Section, Inc. of the American Chemical Society
- **Premio de Oro (Gold Prize)** (10th Grade) June '22
 - National Spanish Exam Medal (gold)
- **Technology Incentive Award** (9th Grade) June '21
 - Presented to only one 9th grader for creativity in design drawing & 3D printing.
- **Double Accelerated Math (Clusters) Program** 2017 - 2020
 - Selected for double accelerated honors program only available to top 3% of students in the school district.

TECHNOLOGY STACK

Java, HTML, CSS, Python, Desmos, Microsoft 365 (Word, Excel, PowerPoint, & Outlook)