

Aakarsh Gupta

New Hyde Park, NY

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in [guptaaakarsh](#) & [aakarsh507.github.io](#)

EDUCATION

Purdue University West Lafayette, Indiana **2023-2027**

Bachelors of Science, First Year Engineering (FYE)

- Vertically Integrated Projects (VIP) Learning Community
 - Purdue Aerial Robotics Team (PART)

New Hyde Park Memorial High School New Hyde Park, New York **2019-2023**

Cumulative, GPA 95.25 (unweighted) 99.79 (weighted)

Honors:

- High Honor Roll Student
- Inducted into National Junior Honor Society, National Science Honor Society, National Technical Honor Society, National Social Studies Honor Society, National Math Honor Society, and National English Honor Society
- Awarded Rochester Institute of Technology Computing Medal/Scholarship

EXPERIENCE

Digital Marketing Intern | Purity Products Plainview, New York **July 2023 - August 2023**

- Utilized advanced Excel functions, including VLOOKUP, to input and analyze retail data, ensuring accurate and well-organized information.
- Developed and maintained spreadsheets for tracking sales, inventory, and customer engagement metrics, enhancing data-driven decision-making processes.
- Leveraged Python, utilizing libraries such as pandas and scikit-learn, to conduct comprehensive customer segmentation analysis. Uncovered distinct segments based on behavior and Lifetime Value (LTV), employing advanced techniques for data clustering and classification.

Educator | Long Island Children's Museum Garden City, New York **August 2022 - August 2023**

- Interact with children, parents, and caregivers at various interdisciplinary exhibits & assist in play-based learning on the museum floor.

Product Development Intern | Comet Santa Clara, California (remote) **July 2022 - September 2022**

- Comet is an all-in-one task manager that helps students choose their major, find the right colleges, and keep track of their college apps.
- Participated in user tests following CTO's guidelines and contributed to product development by providing critical feedback & thoughtful recommendations
- Collaborated with engineers and other departments to develop effective strategies and test plans
- Created a web application to display colleges in a simple and interactive way and conducted a market audience survey to understand how to solve a problem related to preparing for college.

Program Member | National Summer Transportation Institute City Tech, New York **Aug 2021**

- Provided us with projects to complete and introduced engineering fields related to the transportation industry: Civil and Aerospace Engineering
- Awarded best accolade for final presentation

Intern | AP Consulting PLLC New Hyde Park, New York (remote) **July 2021 - August 2021**

- Analyzed AutoCAD building plans, outlined the details, and submitted via NYC DOB portal for approval.

ACTIVITIES AND LEADERSHIP EXPERIENCE

Varsity Boys Tennis **March 2021 - June 2023**

- 2021 Conference Champions | Double's Player

SCHSD Robotics Club **September 2020 - June 2023**

- Worked on robots as designer/builder & competed in FIRST FTC robotics competition
- Served as a mentor to new members of the club
- 2021 Long Island Regional Robotics Competition Awards
 - 1st Place Control, 2nd Place Inspire, 2nd Place Top Ranked, 2nd Place Compass, 3rd Place Connect, & 3rd Place Promote
- 2022 Long Island Regional Robotics Competition Awards
 - 1st Place Connect, 2nd Place Think, 2nd Place Inspire, & Winning Alliance

Hindu Student Association **September 2019 - June 2023**

- Treasurer (2019 - 2020) | Secretary (2021 - 2022) | President (2022 - Present)
- Organize culture activities, manage social media pages, and arrange meetings.

Mathletes **September 2019 - June 2021**

- Vice President in Junior High Mathletes (2019-2020)

St Jude's Research Fundraiser **April 2021 - June 2021**

- Raised \$2,000 for St Jude's Research through social media

SKILLS

- MS Suite (Word, Excel, PowerPoint)
- G Suite (Drive, Sheets, Slides, Docs)
- Web Page Design (HTML, CSS, JS)
- Programming (Python, C++)
- Tools (Visual Studio Code, GitHub)
- CAD (AutoCAD, VCarve, OnShape)
- OS (Linux, Windows, IOS)
- Arduino
- Raspberry Pi
- Soldering
- Laser Cutter
- ShopBot
- DaVinci Resolve

PROJECTS

NASA TechRise Student Challenge

January 2022 - July 2022

- Accepted into the NASA TechRise Student Challenge.
- Created an instrumentation package composed of various sensors to measure:
 - Ozone, Carbon Dioxide, Volatile Organic Compounds, and PM2.5 to demonstrate the effects of climate change
- Worked closely on:
 - PMSA003I and DPS310 sensors
 - Harvard University environmental chamber test
 - Final integration/assembly.

Biometric Garage Door Opener

June 2022 - July 2022

Skills: Arduino, Laser Cutter, C++, VCarve, AutoCAD, and Soldering

- Created a fingerprint access garage door opener using the Arduino Uno and designed a storage unit for the final product.

CERTIFICATIONS

Software Engineering Virtual Experience

JPMorgan Chase & Co. August 2022

- Interface with a stock price data feed
- Use JPMorgan Chase frameworks and tools
- Display data visually for traders

Engineering Virtual Experience Program

General Electric August 2022

- Energy: Power Generation
- Healthcare
- Aviation Systems

LANGUAGES

English [Native or bilingual proficiency]

Hindi [Native or bilingual proficiency]

Spanish [Limited working proficiency]