Education: New Hyde Park Memorial High School

Class of 2024

GPA Weighted 99.23; GPA Unweighted 97.36; SAT- 1550 PSAT- 1480

High Honor Roll (09/2018-Present)

Relevant Current Courses: AP Physics C Mechanics, AP Physics C Electricity & Magnetism, AP Calculus BC, AP Biology, AP Psychology, AP Computer Science Principles, AP Computer Science A, Elementary Differential Equations

Relevant Completed Courses: Regents Advanced Living Environment, Regents Advanced Earth Science, Regents Advanced Chemistry, Regents Algebra I, Regents Geometry, Regents Algebra II, College Pre-Calculus, Pre-Engineering, Multivariable Calculus, Linear Algebra, College Statistics, AP Calculus AB (5), AP Chemistry (5), AP Physics 1 (4), AP Physics 2 (4), & Pre-Engineering II

In-School STEM Experience

New Hyde Park Memorial High School Science Research - New Hyde Park, NY

09/2018-06/2020, 09/2022-06/2023

Participated in different research competitions annually (i.e. Northwell Health Medical Marvels Competition)

New Hyde Park Memorial High School Stage Crew - New Hyde Park, NY

09/2018-Present

Lights operator and co-president of the club

Sewanhaka High School Robotics Club - Floral Park, NY

04/2021-Present

Assembled and programmed Team 4017's robots for the FTC (First Tech Challenge) competition

Out-Of-School STEM Experience

Cybersecurity and Internet of Things Research - Virtual

07/2022-07/2023

 Worked with Dr. Jatinder Singh through the University of Cambridge on creating a safer Bluetooth experience through improved data provenance and device authentication

Summer@Brown Quantum Computing - Providence, RI

06/2022-07/2022

Learned quantum physics and computing from Dr. Stefan Stanojevic of Brown University

NYU Collegiate Seminars Participant - New York, NY

09/2022-10/2022

Studied Knot Theory and Viral Host Responses in seminars taught by NYU Faculty

The Coding School QubitxQubit - Virtual

10/2022-04/2023

- Received a full scholarship from IBM to the quantum computing seminars
- Created a quantum machine learning algorithm for object detection final project conducted on IBM Quantum Computers

NASA TechRise Project - Virtual

12/2022-07/2023

- Received a scholarship to build a CubeSat sent on a high-altitude balloon for physics laboratory research
- · Conducted analysis of gravitation at high altitudes and tested the capabilities of low-oxygen cooling methods on microcontrollers

MIT BeaverWorks Summer Institute Embedded Security Seminar - Virtual

07/2023-08/2023

- Educated on hacking and manipulation of microcontrollers from Texas Instruments with an instructor from MITRE
- Final project included building a firmware protection bootloader for use in real-world embedded applications

Overclocking and Residual Neural Network Research - Virtual

06/2023-09/2023

- Learned complex computer engineering concepts and conducted research with Dr. Seda Memik of Northwestern University
- Research consisted of analyzing the effects of overclocking modern graphics processors on AI Image Classification performance

Certifications

CompTIA

- CompTIA Advanced Security Practitioner+
- PenTest+
- Linux+
- Security+
- Network+
- A+
- Cloud Essentials+
- IT Fundamentals+
- Data+

IBM

- Applied Data Science Specialization
- BI Fundamentals with SQL, ETL, and Data Warehousing Specialization
- Data Analysis & Visualizations
 Foundations Specialization
- Data Analyst Professional
- Data Science Fundamentals Specialization
- Data Science Professional
- Data Warehouse Engineer Specialization
- IT and Cloud Fundamentals Specialization
- Cybersecurity Analyst Professional

Miscellaneous

- Google IT Support Certificate
- Google Data Analytics Certificate
- Google Fundamentals of Digital Marketing
- AWS Certified Cloud Practitioner
- (ISC)2 Certified in Cybersecurity
- Microsoft Certified Security Operations Analyst Associate
- Six Sigma Certified White Belt and Yellow Belt
- Scrum Foundation Professional
- Alibaba Cloud Computing Certificate
- SkillFront Information Security Associate

Other Extracurriculars

Information Technologies

Writer for cultists.network

01/2022-Present

o Writes news on computer hardware-related events and reviews keyboards or computer hardware

| Competitive Overclocker | 06/2020-Present |
|--|-----------------|
| o Top 10% overclocker on hwbot.org in the enthusiast class and captain of the team GTUK | |
| Freelance Computer Technician | 09/2018-Present |
| o Repairs and builds computers as a hobby, formerly a computer flipper | |
| Freelance Ethical Hacker | 04/2021-Present |
| o Participates in hacking competitions such as those hosted on TryHackMe and a bug bounty hunter on Hacker | One |
| Internship | |
| • gt.school - Virtual | 07/2022-05/2023 |
| Summer intern that worked to pilot a new self-study program for competitive students to accelerate their students. Volunteering | dies |
| Sunny Chinese Center - New Hyde Park, NY | 09/2022-Present |
| Student director, volunteer, and web developer - Tutored mathematics and Chinese, programmed public web | • |
| become a Presidential Volunteering Service Award Certifying Organization status | |
| New Hyde Park Chinese Association - New Hyde Park, NY | 09/2022-Present |
| o Web developer and volunteer - Helped set up Lunar New Year events, programmed public website | |
| Schoolhouse.world - Virtual | 11/2022-Present |
| o Volunteer SAT Math tutor on Schoolhouse.world, a nonprofit started by Sal Khan | |
| Awards and Honors | |
| National Merit Semifinalist | 09/2023 |
| Questbridge Quest for Excellence: STEM Award | 07/2023 |
| College Board AP Scholar with Distinction | 07/2023 |
| Presidential Volunteering Service Gold Award | 06/2023 |
| Rochester Institute of Technology Computing Award | 05/2023 |
| National Merit Commended Student | 05/2023 |
| Questbridge College Prep Scholar | 04/2023 |
| Reed College Junior Scholar | 01/2023 |
| Literary Luminaries National English Honor Society | 11/2022-Present |
| Mu Alpha Theta Honor Society | 11/2022-Present |
| Rho Kappa National Social Studies Honor Society | 11/2022-Present |

09/2021-Present

09/2021-Present

09/2020-Present

Languages: Fluent in English and Chinese (Mandarin, Fuzhounese, & Fuxingnese), conversational in Spanish and Japanese

Tri-M Honor Society

National Science Honor Society

National Junior Honor Society