

Youjun (Fred) Han

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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

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

- Assisted the team in assembling and programming our robots for the FTC (First Tech Challenge) competition

Out-Of-School STEM Experience

Research through CCIR-Virtual

07/2022-07/2023

- Mentored by 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 the basics of 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 final project

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.

Massachusetts Institute of Technology 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

Pioneer Academics Computer Engineering Seminar and 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
 - Reports on new computer hardware-related events and reviews keyboards and hardware
- Competitive Overclocker
 - Top 10% overclocker on hwbot.org as an enthusiast and captain of the team GTUK

- Freelance Computer Technician 09/2018-Present
 - Repairs and builds computers as a hobby, formerly a computer flipper
- Freelance Ethical Hacker 04/2021-Present
 - Participates in hacking competitions such as those hosted on TryHackMe and a bug bounty hunter on HackerOne

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 studies

Volunteering

- **Sunny Chinese Center**-New Hyde Park, NY 09/2022-Present
 - Student director, volunteer, and web developer - Tutored mathematics and Chinese, programmed public website, and helped SCC become a Presidential Volunteering Service Award Certifying Organization status
- **New Hyde Park Chinese Association**-New Hyde Park, NY 09/2022-Present
 - Web developer and volunteer - Helped set up Lunar New Year events, programmed public website
- **Schoolhouse.world**-Virtual 11/2022-Present
 - Volunteer SAT Math tutor on Schoolhouse.world, a nonprofit started by Sal Khan

Awards and Honors

- National Junior Honor Society 09/2020-Present
 - National Science Honor Society 09/2021-Present
 - Tri-M Honor Society 09/2021-Present
 - Rho Kappa National Social Studies Honor Society 11/2022-Present
 - Mu Alpha Theta Honor Society 11/2022-Present
 - Literary Luminaries National English Honor Society 11/2022-Present
 - Reed College Junior Scholar 01/2023
 - Questbridge College Prep Scholar 04/2023
 - Rochester Institute of Technology Computing Award 05/2023
 - Presidential Volunteering Service Gold Award 06/2023
 - Questbridge Quest for Excellence: STEM Award 06/2023
 - College Board AP Scholar with Distinction 07/2023
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Languages: Fluent in English and Chinese (Mandarin, Fuzhounese, & Fuxingnese), conversational in Spanish and Japanese