

Steven Rakhmanchik

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Education:

Stuyvesant High School: 2018- Present • **Diploma Anticipated:** June 2022 • **GPA:** 92.73 • **Last Semester GPA:** 93.83

Relevant Coursework: Annual Intro to Computer Science • Science Olympiad • AP Calculus • AP Computer Science A • System Level Programming • AP Physics C • Math Of Quantum Mechanics • Multivariable Calculus • Cyber Security

Examinations: SAT Bio M: 770 • SAT: 1550 (E: 760, M: 790)

Cornell University: School of Electrical and Computer Engineering (Starting August 2022) • **Diploma Anticipated:** 2026

Online Courses and Out of School Programs:

- Stuyvesant Summer Research Program — *Summer 2019*
- edX MITx 6.00.1x: Intro to CS/Programming With Python — *August-October 2019*
- HarvardX Data Science R Basics — November 2019 — *January 2020*
- edX MITx 6.002.1x: Circuits and Electronics 1: Basic Circuit Analysis — *June-July 2020*
- MIT Splash — *November 2019/2020*
- Stuyvesant Alumni Mentoring Program — *December 2020 — June 2021*

Skills:

Programming/Markup Languages: Python 2/3 • Julia • R • HTML • CSS • Javascript • Scheme • Netlogo • Java • Swift • Ti-Basic • C

Major Libraries and Modules: Q# • Numpy • Tensorflow • Pillow • OpenCV • Flask • Kivy

Extracurriculars and Work Experience

Stuy Sigma STEM Magazine Writer and Regeneron Research Club Member **September 2018 – August 2019**

Learned about PCR and gel electrophoresis techniques and learned about different fields of STEM research in Regeneron Research Club, which I later used helping to write and edit my school's bi-annual STEM magazine called SIGMA.

Brooklyn Public Library Tech Volunteer (60 hours) **June – August 2019**

Helped with teaching child/adult technology/Comp Sci programs and wrote code to automate data entry to excel from the native library "Siera" book database, saving approximately 2 hours a week for library staff.

Stuyvesant High School Science Olympiad Team Member: **September 2019 – ongoing**

Built planes for "Wright Stuff" event based on strict SciOly guidelines, while learning to use 3D printers, laser cutters, and other various equipment. Learned about physics behind airplane aerodynamics.

Summer Camp Counselor at JCC Brooklyn **June – August 2020**

Worked with kids and helped specialists teach specific science/education-related classes.

Finxerunt Non-Profit Software Department Team Lead **August 2020 – ongoing**

Wrote code for Finxerunt organization website from scratch and led software department team for improving website and maintaining it over time.

Stuyvesant Math and CS Research/ Stuyvesant Math Survey Magazine Writer **October 2020 – ongoing**

Started out by helping to create a website for the club but later became a member tasked with writing articles about CS research. Wrote articles about AES encryption and matrixes.

Stuyvesant Competitive Computing Club Member **September 2019 – ongoing**

Participated in numerous coding competitions such as USACO, PClassic, studying ways to solve complex computing problems more efficiently.

Volunteer At National Museum of Mathematics (320 hours) **June 2021 – ongoing**

Helped people understand exhibits. Actively helped come up with new exhibits and contributed to the code of existing exhibits.

Honors and Awards

- **MIT Blueprint (January 2020) 1st Place Winner (Acqua Fonte):** Created a webapp to log and map out locations of nearby water fountains to help people find them based on crowdsourced information.