
Education

New York University, Tandon School of Engineering Graduating May 2026

Bachelor of Science, Computer Science Major

GPA: 3.725

Relevant Coursework: Data Structures & Algorithms, Introduction to Engineering & Design, Introduction to Programming, Calculus I & II for Engineers, Engineering and Technology Forum.

Saint John's Preparatory School September 2018 - June 2022

GPA: 101.294/100

1520 SAT Score (780 math, 740 english)

Relevant Coursework: AP Computer Science, University Calculus I, University Calculus II, AP Calculus, AP Statistics

- AP Scholar With Distinction Award; AP Scholar With Honor Award
- Graduated in the top 8% of my class; overall semester GPA of 95% or above for every semester.
- Was awarded the *Trustees' Award for Excellence in Mathematics* for being ranked 1st in mathematics among the Saint John's Prep class of 2022 (GPA, test scores).

Personal Projects

Personal Website (HTML/CSS)- <https://alinasrallah.github.io>

- Created a personal website using HTML; Used CSS to style site and make it more appealing; Includes navigation bar where users can access my resume, projects, LinkedIn profile, or send me an email.

2022 FIFA World Cup simulator (Python)

- Developed a program that creates independent simulations of the entire World Cup; Provides match statistics/results for each match. Match results are influenced by the program's utilization of each team's attributes. I used OOP, data structures, statistics, etc.

Experience

MCM Mathematical Modeling Competition February 2023

- Worked with a team of two other colleagues to develop a mathematical model to determine the difficulty of guessing words in Wordle and give a projection of result distributions accordingly. Wrote a 20 page report outlining our model/methods. Used Python (scipy, pandas) to implement the model. The correlation coefficient of our model was 0.85.

Urban Microclimate- Data & Informatics/Models & Microclimate team January 2023-present

- Working with a team of NYU PhD students and upperclassmen to develop a microclimate simulation of Downtown Brooklyn. Contributed to the development of image classification program using Google Earth Engine unsupervised classification algorithms (JavaScript).

NYU Biomedical Engineering Society- Undergrad Representative September 2022-Present

- Formulate ideas for the organization of BME related academic, professional, research, and social events. Facilitated the organization and execution of a research poster event where professors, PhD students, MD/PhD students, MS students, and undergraduate students from NYU present their BME research.

National Honor Society- Tutor November 2021 - May 2022

- Tutored students in algebra I, geometry, algebra II, chemistry, calculus, English, history, living environment, earth science, Python.

Saint John's Prep Varsity Soccer Team- Starting left-back August 2020-June 2022

- Helped lead my teammates to a CHSAA Varsity "A" Division Championship Title as a starter. Had seven assists during the fall 2021 season.

Skills

- Python programming
- HTML/CSS
- Google Workspace (Sheets, Docs, Slides)
- Microsoft Excel/Powerpoint/Word