

## **Shrey Sahgal**

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### **Objective**

A summer internship where I can apply and develop my programming and problem-solving skills, as well as one where I can experience the work environment of a tech company.

### **Education**

Horace Mann School, Bronx, NY, Class of 2020

Current Junior: Cumulative STEM GPA > 3.75

### **Employment History**

Software Engineering Intern at Essen Healthcare (June 2018-August 2018)

### **Honors and Awards**

1st place at HackMann (Horace Mann Hackathon) (2017), Best Cybersecurity Hack at LewHacks (Francis Lewis High School Hackathon) (2017), 3rd place at HackTrin (Trinity School Hackathon) (2017), placed 57 out of 900+ high schoolers in PACTF (Phillips Academy CTF) (2017), 42nd out of 250 high schoolers in Halite.io (Two Sigma online AI competition) (2018), 2nd place at HackTrin (2018).

1st Euphonium and Euphonium Soloist, Independent School Music Association of New York City Honor Band

### **Relevant Coursework**

Biology, Geometry, Computer Science 2, Chemistry, Algebra 2 and Trigonometry, Physics, AP Chemistry, Precalculus, AP Computer Science.

A in all math and computer science classes.

### **Skills**

Proficient in Java, Python, JavaScript, Processing with an emphasis on algorithm analysis and increasingly on machine learning (especially genetic algorithms and various types of neural nets).

Scientific research and mathematical analysis.

Proficient rocketeer; capable of designing and building composite solid-fuel engine.

Excellent writer, presenter of ideas, and mentor to younger students.

### **Extracurricular Activities**

Co-head of Programming and Electronics of Horace Mann's Varsity FTC Robotics Team Basement Lions Team #4326 (2018-Present).

Editor-in-chief, Devil's Advocate Publication, a publication in which writers try to argue against their beliefs (2018-Present).

Member, Horace Mann American Computer Science League (which participated in ACSL Nationals for the past 3 years) (2016-Present).

Head Mentor, Horace Mann Middle School FIRST Lego League Robotics teams (2017-Present).

Member, Horace Mann TEAMS (Test in Engineering and Aptitude in Mathematics and Science) team, 1st in New York State 2018 and 2019 (2018-Present).

Presenter, Horace Mann Science and Technology Fair (2018).

Member, Horace Mann Rocketry Club (2016-Present).

Java Programming Teacher, Horace Mann "STEAM on the Hill" Program, which provides STEAM education to children in the Bronx who would not normally have access to it (2018-Present).

Member, Horace Mann Programming Club (2016-Present).

Setter, Horace Mann Varsity Volleyball Team (2018-Present).

Euphonium player since age 8, piano player since age 10.