

# Shayl Chetty

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## Education

**Columbia University | C.P. Davis Scholar** (top 5% of Engineering students)

**New York, NY**

Freshman | Heavy Course Load (Avg. 19 credits per semester)

*Aug 2022 – May 2025*

Relevant Courses: Intro to Java, Intro to Python, Data Structures, Multivariable Calculus for Engineers

**Conestoga High School**

**Berwyn, PA**

GPA: 4.00 / 4.00 | 17 AP Courses, 2 Dual Enrollment Courses

*Aug 2018 – May 2022*

Test Scores: SAT - 1560/1600, BIO SAT II - 800/800

## Skills

**Programming Languages:** Python, Java | **Familiar:** HTML, CSS, JavaScript, NLTK, Natural Language Processing, OCaml

**Other:** Data Structures and Algorithms, Object-Oriented Programming, VS Code, GitHub, Eclipse, Pycharm, Google Colab

## Research/Work Experience

**Uber | Incoming Software Engineering Intern**

**New York, NY**

- The UberSTAR program at Uber is a 12-week paid summer software engineering internship

*May 2023 - Aug 2023*

**Jane Street | Focus Participant**

**New York, NY**

- Placed 1st in Estimathon, learned about trading, software engineering and business development

*January 2023*

**Fox Chase Cancer Center Science Immersion Program | Student/Researcher**

**Philadelphia, PA**

- Studied suppression of EGFR overactivation in Drosophila; focusing on lung cancer applications
- Attempted using the drug guarana to limit overactivation of the oncogene and reduce lung cancer risk

*Dec 2020 – March 2021*

**Penn Summer Science Initiative | Student/Researcher**

**Philadelphia, PA**

- Received lectures on Materials Science, ran experiments, gained exposure to characterization techniques

*July 2021 – Aug 2021*

**Science Fair (ISEF) | Computational Materials Science Researcher**

**Berwyn, PA**

- Awards and scholarships totaling \$100,000+. View Projects [Here!](#)

*Aug 2018 – April 2021*

## Projects

**Economic News Sentiment Analysis | Python | Partner(s): Anish Dhanasekaran, Will Huang | [GitHub](#)**

*July, 2022*

- Developed a project that recommends ETFs to buy/short based on scraped titles from economic news sites
- Used beautiful soup for web scraping and NLTK to perform the sentiment analysis (NLP)

**Soccer Penalty Calculator | Python | [GitHub](#)**

*March, 2020*

- Built a program that calculates whether or not the goalkeeper will save the penalty as the ball is dragged across the goal
- Submitted as part of the AP Comp Sci P exam, received score of 5 (awarded to the top 10.8% of test takers)

**GPA Permutation Calculator | Python | [GitHub](#)**

*June, 2022*

- Wrote a program that calculates every possible arrangement of A's, B's, C's, etc for achieving a desired GPA

## Leadership/Extracurricular Activities

**Conestoga High School Boys Varsity Soccer Team** (Varsity as a Freshman)

**Berwyn, PA**

- Ranked 3rd nationally by Prep Soccer (2021), Pennsylvania State Champions, District 1 Champions

*Aug 2018 – Nov 2021*

**Conestoga Science Fair Club | Co-leader**

**Berwyn, PA**

- Computational Materials Science research

*Sep 2019 – May 2022*

**Conestoga High School National Honor Society | Vice President**

**Berwyn, PA**

- Elected to lead a 400+ member NHS, tracking over 8,000 volunteer hours
- Used JavaMail API to automate hours collection, streamlining hours request, verification, and completion

*June 2021 – May 2022*

## Honors/Awards

- National Merit Finalist: \$8,000 awarded for PSAT NMSQT test score (top 0.2% of test takers)
- AP Scholar with Distinction, AP Capstone Diploma
- 2nd place Medicine Delaware Valley Science Fair (\$75) + \$30,000 scholarship from University of the Sciences
- 3rd place Biochemistry Delaware Valley Science Fair (\$50) + \$60,000 scholarship from Harrisburg University
- Pennsylvania Junior Academy of Science: 1st award + perfect score + judge's award (\$50)

*Sept 2021*

*May 2020*

*April 2021*

*April 2019*

*Feb 2020*