

# Rajeev Atla

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## Contact

 rajeevatla.com  
 hi@rajeevatla.com  
 RajeevAtla  
 rajeev-atla  
 rajeevratla

## Programming

Python  
Java  
JavaScript  
SQL

## Technologies

NumPy  
PyTorch  
Pandas  
Scikit-learn  
Git

## Markup

L<sup>A</sup>T<sub>E</sub>X  
Asymptote  
HTML  
CSS  
Markdown

## Tools

Emacs  
Ubuntu



## Education

### 2021 - 2025 Rutgers University — New Brunswick

- ⦿ Triple major in Computer Engineering, Computer Science, and Statistics/Mathematics
- ⦿ Minor in Data Science
- ⦿ Potential Minor in Operations Research
- ⦿ Potential Certificates in Quantitative Economics or Computational Economics
- ⦿ Extracurriculars: Engineering Honors Academy, IEEE, Quantitative Finance Club, Competitive Programming Club, Engineering Honors Council, Alliance of Computer Scientists, Math Association, Statistics Club, Quidditch

### 2017 - 2021 John P. Stevens High School

- ⦿ Scored a **35/36** on ACT
- ⦿ Took **19** AP exams (National AP Scholar) and **8** honors classes
- ⦿ **5.56** Weighted GPA & **4.07** Unweighted GPA
- ⦿ Extracurriculars: Science Bowl (President), Science League (President), Science Olympiad (President), Physics Club (President), Chemistry Club (President), Quiz Bowl, National Honor Society, Science National Honors Society, National Technical Honor Society, National English Honor Society, Mu Alpha Theta

### 2020 - 2021 Columbia Science Honors Program

- ⦿ Took *Introduction to Algorithms* and *Graph Theory*
- ⦿ Selected as one of **~2000** applicants from the tri-state area (NJ, NY, CT)



## Projects

### 2020 - 2021 SuperconGAN: Superconductivity and GANs

- ⦿ Used PyTorch to construct and train a generative adversarial network (GAN) to analyze superconductivity data
- ⦿ Withdrew data from UCI Machine Learning Repository using Pandas
- ⦿ Published package on PyPI with **20,000+ downloads**
- ⦿ Wrote unit tests using Pytest
- ⦿ GitHub Repository: <https://github.com/RajeevAtla/SuperconGAN>

### 2019 - 2021 rajeevatla.com

- ⦿ Used Jekyll and GitHub Pages to publish personal website
- ⦿ Blogged on various technical subjects including physics and math

### Aug. 2020 Sentiment Classification on IMDb Movie Reviews

- ⦿ Lead a team of **5** in using Sklearn and Pandas to construct an F1-based model to classify movie reviews as positive or negative
- ⦿ Achieved **90.5%** accuracy using linear bigram tf-idf

### May 2021 Travel App

- ⦿ Designed mobile app to give iconic tours of areas along with 4 team members
- ⦿ Wrote controllers and models for MongoDB using Mongoose ORM
- ⦿ Utilized Flutter for frontend and Express.js and MongoDB for backend
- ⦿ Placed **2nd** at HackExeter 2021



## Awards

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## March 2020 **US Physics Olympiad Qualifier**

- ⦿ Placed in **top 400** out of **5,000+** on  $F=ma$  exam, based on knowledge of calculus-based mechanics and physical intuition
- ⦿ Final exam cancelled due to COVID-19
- ⦿ [https://www.aapt.org/physicsteam/2020/upload/2020-USAPhO-Qualifiers\\_v3.pdf](https://www.aapt.org/physicsteam/2020/upload/2020-USAPhO-Qualifiers_v3.pdf)

## 2019, 2021 **NJIT Chemistry Olympics**

- ⦿ Utilized knowledge of organic and inorganic chemical nomenclature, as well as general chemistry knowledge
  - ⦿ Lead nomenclature team to **3rd place in 2021** and **4th place in 2019** (2020 canceled due to COVID-19)
  - ⦿ Lead demonstration show team to **4th place in 2019**
  - ⦿ Selected to represent high school out of **200+** applicants
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