# Rajeev Atla


## Contact

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## Programming

Python
Java
JavaScript
SQL

## Technologies

NumPy
PyTorch
Pandas
Scikit-learn
Git

## Markup

LaTeX
Asymptote
HTML
CSS
Markdown

## Tools

Emacs
Ubuntu
Windows

## 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

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`

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