# Rajeev Atla


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**Programming**
Python
Java
C/C++
JavaScript
SQL

**Technologies**
NumPy
PyTorch
TensorFlow
Keras
Pandas
Scikit-learn
Git

**Markup**
LaTeX
Asymptote
HTML
CSS
Markdown

**Tools**
Emacs
Ubuntu

## Education

2021 – 2025 **Rutgers University — New Brunswick**
- Majoring in Computer Science & Computer Engineering
- Minor in Data Science
- Dean's List Fall 2021
- Extracurriculars: Engineering Honors Academy, IEEE, Competitive Programming, Engineering Honors Council, Math Association, Quidditch

2017 – 2021 **John P. Stevens High School**
- Scored a **35/36** on ACT
- Extracurriculars: Science Bowl (President), Science League (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**
- 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 Python Package Index (PyPI) with **20,000+ downloads**
- Wrote unit tests using Pytest, achieving **80%** test coverage
- 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 **Cityscape**
- 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
- `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**
- Lead demonstration show team to **4th place in 2019**
- Selected to represent high school out of **200+** applicants