# RAJEEV ATLA

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## Education

#### Rutgers University – School of Engineering

New Brunswick, NJ

Triple Major (BS) in Computer Science, Computer Engineering, and Data Science

September 2021 - May 2025

Relevant Coursework: Deep Learning, Statistical Learning, Machine Learning, Data Science, Database Management, Statistical Inference, Algorithms, Computer Architecture, Data Structures, Probability Theory, Differential Equations, Multivariable Calculus, Discrete Math, Digital Logic, Linear Systems, Information and Network Security, Computer Systems, Linear Algebra, Multivariate Statistical Analysis, Software Engineering, Virtual Reality

# Technical Skills

Languages: Python, Java, C/C++, JavaScript, SQL, MATLAB, HTML/CSS, Bash, R

Tools: Git, Emacs, GitHub Actions, Linux (Ubuntu), PostgreSQL Libraries: NumPy, PyTorch, TensorFlow, Keras, Pandas, Scikit-learn

# Experience

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### Software Engineering Intern

May 2023 - September 2023

Remote

- Updated website from ES5 to ES7 using HTML, CSS, and JavaScript
- Optimized internal tooling to speed up build pipeline by 13%
- Doubled weekly web traffic by enhancing SEO presence and implementing Google Analytics tracking
- Created script to compress form data with Python and SQL, saving 7% in storage costs
- Deployed machine learning-based resource inference system for internal microservices, reducing latency by 100 milliseconds

# Projects

# SuperconGAN | GitHub Repository: https://bit.ly/3z7JaqZ

- Designed and trained a generative adversarial network (GAN) to analyze superconductivity data using PyTorch
- Withdrew 80,000+ entry dataset from UCI Machine Learning Repository using Pandas
- Published package on Python Package Index (PyPI) with 55,000+ downloads
- Achieved 80% test coverage using Pytest to ensure proper function of package
- Wrote paper summarizing findings and potential future research directions with LaTeX, using 500,000+ data points **Cityscape** | Devpost Entry: https://bit.ly/3OZjJ07
  - Led **team of 4** to brainstorm, design, and write a mobile app to give iconic tours of cities
  - Wrote controllers and models for MongoDB using Mongoose ORM to store 30+ kB of geographic data in NoSQL schema
  - Built mobile user interface allowing users to search, review, rank, and explore 100+ tours using Flutter/Dart
  - Constructed REST API using Express is and nodemon to increase development velocity by 20% with hot-reloading
  - Overhauled Google Slides pitch deck to win 2nd overall at HackExeter 2021

#### IMDB Movie Review Sentiment Analysis | GitHub Repository: https://bit.ly/3C3RpWK

- Led team of 5 to use Scikit-learn and Pandas to classify IMDB movie reviews
- Implemented F1-based linear term frequency bigram model to achieve 90.5% accuracy
- Extracted data from 25,000+ movie reviews with Pandas and removed 20+ stopwords to improve model performance
- Created confusion matrices and data visualizations for 5+ models using Seaborn
- Presented results in annual data science competition in the local community, placing 3rd place out of 15+ participants **EyeQ** | Github Repository: https://bit.ly/3RsAyBL

- Spearheaded **team of 5** to improve experiences for visually impaired people
- Developed Elixir-based application to transcribe images and documents up to 1 GB in size
- Reduced Docker image size by 53% to ensure speedy pipeline to deployment
- Improved and streamlined Phoenix server to ensure average latency is < 3s
- Presented results and code to **7**+ alumni in annual student presentation

#### Campus Involvement

Treasurer April 2023 - Present Rutgers IEEE Rutgers University

- Created and managed budget for largest engineering student organization, with annual budget over \$100,000
- Managed expenses, processed reimbursements through Google Sheets; built an automated Jira-Zapier payments dashboard
- Previous: Hackathon Planner (September 2021 April 2023) planned hackathon with 100+ attendees