# 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: Machine Learning, AI, Deep Learning, Distributed Deep Learning, Data Science, Database Management, Information and Data Visualization, Statistical Learning, Statistical Inference, Multivariate Statistical Analysis, Probability Theory, Regression Methods, Multivariable Calculus, Differential Equations, Discrete Math, Stochastic Processes, Linear Algebra, Data Structures, Algorithms, Computer Architecture, Information and Network Security, Software Engineering, Virtual Reality, Robotics and Computer Vision, Digital Logic

### Technical Skills

Languages: Python, R, SQL Java, C/C++, Rust, MATLAB, Bash

Libraries/Frameworks: NumPy, PyTorch, PyTorch Lightning, TensorFlow, Keras, Pandas, Scikit-learn, NLTK

Data Visualization: Matplotlib, Seaborn, Plotly, Tableau

Cloud & DevOps: AWS, Microsoft Azure, Vercel, GitHub Actions (CI/CD), Jenkins, Docker, Kubernetes

Tools & Databases: Git, Linux (Ubuntu), PostgreSQL, MongoDB, Emacs, Jira

Web Development: JavaScript/TypeScript, HTML/CSS, React

Experience

#### Software Engineering Intern

May 2024 - September 2024

Atlait Inc. Remote

- $\bullet$  Developed a Python and SQL script that compressed form data, leading to a 7% reduction in storage costs
- Deployed machine learning-based inference system for internal microservices, reducing latency by 100 milliseconds
- Updated website from ES5 to ES7 using HTML, CSS, and JavaScript, resulting in 23% faster loading speed
- Streamlined internal tooling to speed up build pipeline by 13%, ensuring efficient development cycles

Projectishanced SEO practices and incorporated Google Analytics tracking, which resulted in a 100% increase in web traffic

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

- Designed and trained a generative adversarial network (generative AI model) to analyze superconductivity with PyTorch
- Withdrew 80,000+ entry dataset from UCI Machine Learning Repository using Pandas
- Published package on Python Package Index (PyPI) with 63,000+ downloads
- Achieved significant coverage of 82% utilizing Pytest, enabling confirmation of robust package functionality
- Wrote paper summarizing findings and potential future research directions with LaTeX, using 500,000+ data points 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 a F1-based linear term-frequency bigram NLP 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
  - $\bullet$  Presented results in annual data science competition in the local community, placing **3rd place** out of **15+** teams

#### **Cityscape** | Devpost Entry: https://bit.ly/3OZjJ07

- Led a team of 4 in brainstorming, designing and implementing a city tour mobile app, resulting in the creation of 100+ vivid city tours available for users
- 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

#### **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%**, accelerating the build pipeline
- Improved and streamlined Phoenix server and React dashboard to ensure average latency is < 3s

# Campus Involvement

#### Treasurer

Rutgers IEEE

April 2023 - April 2024

Rutgers University

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