# 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

## Skills

**Languages**: Python, R, SQL Java, C/C++, Rust, Elixir, 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, Jenkins, Docker, Kubernetes
**Tools & Databases**: Git, Linux (Ubuntu), PostgreSQL, MongoDB, Emacs, Jira
**Web Development**: JavaScript/TypeScript, HTML/CSS, React, Flutter/Dart, Phoenix, Google Analytics

## Work Experience

**Software Engineering Intern** May 2024 – September 2024

*Atlait Inc.* *Remote*

- Developed a Python-SQL compression script for form data, reducing storage costs by **7%** for enterprise clients
- Integrated a PyTorch inference system into microservices architecture, improving mean response time by **96 milliseconds**
- Updated codebase from ES5 to ES7 using HTML, CSS, and TypeScript, resulting in **23%** faster mean page loads
- Optimized CI/CD pipeline to speed up build times by **13%**, ensuring efficient development cycles
- Improved SEO with targeted optimizations and tracking, **doubling** web traffic using Google Analytics

## Projects

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

- Built a PyTorch-based GAN to model superconductivity data, enhancing generative AI applications
- Extracted and processed **80,000+ dataset entries** from UCI ML Repository using Pandas efficiently
- Released Python package on PyPI, achieving over **63,000+ downloads** and widespread adoption
- Attained **82% coverage** in Pytest to ensure robustness, ensuring high-quality functionality
- Authored a LaTeX paper on findings and future scope, incorporating **500,000+ data points** effectively

**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
- Presented results in annual data science competition in 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.js 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** April 2023 – April 2024

*Rutgers IEEE* *Rutgers University*

- Oversaw budget for largest engineering student organization, with annual budget over $\$\mathbf{100{,}000}$
- Managed expenses, processed reimbursements through Google Forms; built an automated Jira-Zapier payments dashboard, reducing processing time by **30%**
- Previous: Hackathon Planner (September 2021 – April 2023) planned hackathon with **100+** attendees