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/TypeScript, SQL, MATLAB, HTML/CSS, Bash, R
Tools: Git, Emacs, GitHub Actions, Linux (Ubuntu), PostgreSQL
Libraries: NumPy, PyTorch, TensorFlow, Keras, Pandas, Scikit-learn, NLTK, React

Experience

Software Engineering Intern May 2024 – September 2024

Atlait *Remote*

- 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
- Enhanced SEO practices and incorporated Google Analytics tracking, which resulted in a **100%** increase in weekly web traffic
- Developed a Python and SQL script that compressed form data, leading to a **7%** reduction 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 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**

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

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%**, accelerating the build pipeline
- Improved and streamlined Phoenix server and React dashboard to ensure average latency is $<$ **3s**
- Presented results and code to **7+** alumni in annual student presentation

Campus Involvement

Treasurer April 2023 – April 2024

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