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

Remote

Atlait Inc.
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
- ullet Created confusion matrices and data visualizations for ${f 5+}$ 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 designing and implementing a city tour mobile app, resulting in 100+ vivid city tours 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

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