# Rajeev Atla

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## Education

**Rutgers University - School of Engineering** Sep 2025 — Present
*MS in Computer Engineering (Specialization in Machine Learning)* *New Brunswick, NJ*

Coursework: Reinforcement Learning, Multimodal AI, High Performance/Distributed Computing

**Rutgers University - School of Engineering** Sep 2021 — May 2025
*BS (Triple Major) in Computer Science, Computer Engineering, and Data Science* *New Brunswick, NJ*

Eleanor and Samuel Sneath Endowed Scholarship (awarded to 10 engineering students/year)

Coursework: AI, Distributed Deep Learning, Data Science, Statistical Learning, Computer Vision

## Skills

- **Programming Languages**: Python, R, SQL, Java/Scala, C/C++, Rust, Elixir, MATLAB, Bash
- **Libraries/Frameworks**: NumPy, PyTorch, TensorFlow, Keras, Pandas, Scikit-Learn, NLTK, LangChain/LangGraph
- **Data Visualization**: Matplotlib, Seaborn, Plotly, Tableau
- **Cloud & DevOps**: AWS, Microsoft Azure, Oracle Cloud Infrastructure, GitHub Actions, Docker, Kubernetes
- **Tools & Databases**: Jupyter, Apache Kafka, Git, Linux (Ubuntu), PostgreSQL, MongoDB, Jira

## 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 PyTorch inference into Kafka-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

## Projects

**dexMCP** https://bit.ly/dexmcp

- Engineered Model Context Protocol (MCP) server exposing **5+ reusable tools** and **5+ Pydantic models**
- Implemented parameter validation across **20+ typed fields** and **100% of tool inputs**
- Built asynchronous clients using DSPy and LangChain to auto-discover tools and execute multi-step requests

**SuperconGAN** 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 the UCI ML Repository using Pandas efficiently
- Released Python package on PyPI, achieving over **63,000+ downloads** and widespread adoption
- Authored a LaTeX paper on findings and future scope, **incorporating 500,000+ data points** effectively

**Cityscape (2nd Overall at HackExeter 2021)** 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 MongooseORM 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

**EyeQ** https://bit.ly/3RsAyBL

- Developed Elixir-Rust NIF 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 $< 3$s**

## Certifications

- **Oracle (OCI)**: AI Foundations Associate, Generative AI Professional, Data Science Professional, Vector AI Search Professional
- **AWS**: Certified Cloud Practitioner