

# Rajeev Atla

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## EDUCATION

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### Rutgers University - School of Engineering

*MS in Computer Engineering (Specialization in Machine Learning)*

Sep 2025 — Present  
New Brunswick, NJ

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

### Rutgers University - School of Engineering

*BS (Triple Major) in Electrical & Computer Engineering, Computer Science, and Data Science*

Sep 2021 — May 2025  
New Brunswick, NJ

Eleanor and Samuel Sneath Endowed Scholarship (awarded to a full-time engineering student based on merit)

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

## SKILLS

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

## WORK EXPERIENCE

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### Software Engineering Intern

May 2024 — September 2024

Altair 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

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### 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 of various materials, 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 **79,000+ 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 < 3s**

## CERTIFICATIONS

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- **AWS:** [Certified Cloud Practitioner](#), [Certified Machine Learning Specialist](#), [Certified AI Practitioner](#)

- **Oracle (OCI):** [AI Foundations Associate](#), [Generative AI Professional](#), [Data Science Professional](#), [Vector AI Search Professional](#)