

Rajeev Atla

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EDUCATION

Rutgers University - School of Engineering <i>Master of Science in Computer Engineering (Specialization in Machine Learning)</i>	Sep 2025 — Dec 2026 New Brunswick, NJ
Coursework: Reinforcement Learning, Multimodal AI, High Performance/Distributed Computing	

Rutgers University - School of Engineering <i>Bachelor of Science (Triple Major) in Computer Engineering, Computer Science, and Data Science</i>	Sep 2021 — May 2025 New Brunswick, NJ
Recipient of the Eleanor and Samuel Sneath Endowed Merit Scholarship for Engineering Students	

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

SKILLS

- **Programming Languages:** Python, R, SQL, Java, C/C++/CUDA, Rust, 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, OCI (Oracle Cloud Infrastructure), GitHub Actions, Docker, Kubernetes
- **Tools & Databases:** Jupyter Notebooks, Apache Kafka, Git, Linux (Ubuntu), PostgreSQL, MongoDB, Jira

CERTIFICATIONS

- 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](#)

WORK EXPERIENCE

Software Engineering Intern Atlait Inc.	May 2024 — September 2024 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 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 **80,000+ 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**