

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 — May 2026 New Brunswick, NJ
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: Reinforcement Learning, Multimodal AI, High Performance/Distributed Computing

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

SKILLS

- **Programming Languages:** Python, R, SQL, Java, C/C++/CUDA, JavaScript/TypeScript, Rust, Bash
- **AI/ML:** NumPy, PyTorch, JAX, TensorFlow, Keras, Pandas, Scikit-Learn, Transformers, LangChain/LangGraph, DSPy, RAG
- **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

AI Engineering Intern Atlait Inc.	May 2024 — Sep 2024 Remote
<ul style="list-style-type: none">• Developed a Python-SQL compression script for form data, reducing storage costs by 7% for enterprise clients• Accelerated mean response time by 96 milliseconds by integrating PyTorch inference models into Kafka microservices• Created a > 1TB RAG system, utilizing A/B testing to evaluate and optimize AI-powered search accuracy• Optimized CI/CD pipeline to speed up build times by 13% ensuring efficient development cycles	

PROJECTS

dexMCP	https://bit.ly/dexmcp
<ul style="list-style-type: none">• 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	

DocuMint	https://bit.ly/DocuMint
<ul style="list-style-type: none">• Built a 5-agent LangGraph + Gemini doc-modernizer with Gradio, achieved 90%+ modernization coverage on sample docs, cut manual edit time 50% with a 4-tab UX, hardened with 8 deterministic pytest cases and network-safe skips• Authored modular AI agents (fetcher, analyzer, researcher, generator, quality-checker) with structured prompts and severity-prioritized research, lifting modernization accuracy by 35% and trimming LLM API spend by 20%	

SuperconGAN	https://bit.ly/3z7JaqZ
<ul style="list-style-type: none">• 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 LaTeX paper detailing experimental design and validation methodology for 500,000+ data points	

Cityscape (Won 2nd Overall at HackExeter 2021)	https://bit.ly/3OZjJ07
<ul style="list-style-type: none">• Designed and implemented 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	