

# Rajeev Atla

AI/ML Engineer Building Secure, Scalable, & Complex Systems

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## EDUCATION

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

Coursework: AI, ML, Distributed Deep Learning, Data Science, Robotics and Computer Vision, Info and Network Security

## SKILLS

- Programming Languages:** Python, R, SQL, Java, C/C++/CUDA, JavaScript/TypeScript, Rust, Bash
- AI/ML:** NumPy, PyTorch, JAX, TensorFlow, Keras, Pandas, Scikit-Learn, OpenAI API, LangChain/LangGraph, OpenCV, DSPy, RAG, HuggingFace (Transformers, Tokenizers, Datasets, Diffusers), vLLM, pgvector, Pydantic, FastAPI, NLTK, spaCy
- Data Visualization:** Matplotlib, Seaborn, Plotly, Tableau
- Cloud & DevOps:** AWS, Microsoft Azure, OCI, GCP, GitHub Actions (CI/CD Pipeline), Docker, Kubernetes, Slurm
- Tools & Databases:** Jupyter, PySpark, Hadoop/Hive, Git, Linux, PostgreSQL, MongoDB, Jira, MS Office, ROS2, Codex, Claude Code

## 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

<b>AI Engineering Intern</b> Atlait Inc.	May 2024 — Sep 2024 Remote
<ul style="list-style-type: none"><li>Developed a Python-SQL compression script for form data, <b>reducing storage costs by 7%</b> for enterprise clients</li><li>Engineered PyTorch inference models for real-time predictions, <b>optimizing latency by 96ms</b> and enabling faster decision-making</li><li>Created a <b>&gt; 1TB RAG-PySpark</b> system, utilizing A/B testing to optimize AI-powered search and recommendation accuracy</li><li>Optimized Airflow-Hadoop data pipeline to <b>speed up analysis by 13%</b> in an Agile environment, speeding up development</li></ul>	

## PROJECTS

<b>raceformer</b>	<a href="https://bit.ly/raceformer">https://bit.ly/raceformer</a>
<ul style="list-style-type: none"><li>Engineered a high-fidelity “Real-to-Sim” validation pipeline processing <b>30GB of multimodal sensor data</b> (LiDAR, camera, radar) on 4x A100s, utilizing JAX-based vision-language model to generate ground truth scenarios for critical edge case simulation</li><li>Achieved a <b>95% pass rate on safety metrics</b> by leveraging geometric priors to fine-tune RL policies, establishing clear performance baselines and <b>outperforming standard models by 35%</b> in neural path planning and risk avoidance</li></ul>	

## DocuMint

<https://bit.ly/DocuMint>

- Built a 5-agent LangGraph + Gemini API doc-modernizer with Gradio, achieved **90%+ modernization coverage** on sample docs, **cut manual edit time by 50%** with a **4-tab UX**, hardened with **8 deterministic pytest cases** and network-safe skips
- Authored a modular multi-agent system with structured prompts and severity-prioritized research, **lifting modernization accuracy by 35%** and **trimming LLM API spend by 20%**

## 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 create synthetic 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