Rajeev Atla

US Citizen | 732-209-3995 | rajeevatla101@gmail.com | github.com/RajeevAtla | linkedin.com/in/rajeev-atla | rajeevatla.com

EDUCATION

Rutgers University - School of Engineering   Sep 2025 — Present
Master of Science 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
Bachelor of Science (Triple Major) in Computer Engineering, Computer Science, and Data Science   *New Brunswick, NJ*

Recipient of Eleanor and Samuel Sneath 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, Oracle Cloud Infrastructure (OCI), 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   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 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**