

Rajeev Atla

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EDUCATION

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 Computer Science, Computer Engineering, and Data Science

Sep 2021 — May 2025

New Brunswick, NJ

Eleanor and Samuel Sneath Endowed Scholarship (awarded to 10 engineering students/year)

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

SKILLS

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

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, 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 **63,000+ 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

- **Oracle (OCI):** link(<https://catalog-education.oracle.com/ords/certview/sharebadge?id=13B424A52FAC66888CE002F8FDFD03FE72573248AD549080F85BC11D522388E6>) [AI Foundations Associate], link(<https://catalog-education.oracle.com/ords/certview/sharebadge?id=4E6A2DD94215E77B8B87E4525DF387411A640BAB65D7201AB0B1D2D24CED0B6A>) [Generative AI Professional], link(<https://catalog-education.oracle.com/ords/certview/sharebadge?id=D6DF3AA55B1FD67438560857>)

[EFA59468400814337EAD29CD74174A68C3AD9DF1](https://catalog-education.oracle.com/ords/certview/sharebadge?id=7D830D9EAD09139AEF50FBE30832C50E40C736425C432E7E1407F397FA3B76A8)”)[Data Science Professional], link(“<https://catalog-education.oracle.com/ords/certview/sharebadge?id=7D830D9EAD09139AEF50FBE30832C50E40C736425C432E7E1407F397FA3B76A8>”,) [Vector AI Search Professional]

- AWS: Certified Cloud Practitioner