

# Rajeev Atla

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## EDUCATION

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<b>Rutgers University - School of Engineering</b> <i>MS in Computer Engineering (Specialization in Machine Learning)</i>	Sep 2025 — May 2026 New Brunswick, NJ
Coursework: Reinforcement Learning, Multimodal AI, High Performance/Distributed Computing	
<b>Rutgers University - School of Engineering</b> <i>BS (Triple Major) in Electrical &amp; Computer Engineering, Computer Science, and Data Science</i>	Sep 2021 — May 2025 New Brunswick, NJ
Eleanor and Samuel Sneath Endowed Scholarship (awarded to a full-time engineering student based on merit)	
Coursework: AI, Distributed Deep Learning, Data Science, Statistical Learning, Computer Vision	

## SKILLS

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- Programming Languages:** Python, R, SQL, Java/Scala, C/C++/CUDA, Rust, Elixir, MATLAB, 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, Codex CLI

## WORK EXPERIENCE

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<b>Software Engineering Intern</b> Atlait Inc.	May 2024 — September 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>Integrated PyTorch inference into Kafka-microservices architecture, <b>improving mean response time by 96 milliseconds</b></li><li>Updated codebase from ES5 to ES7 using HTML, CSS, and TypeScript, resulting in <b>23% faster mean page loads</b></li><li>Optimized CI/CD pipeline to <b>speed up build times by 13%</b> ensuring efficient development cycles</li></ul>	

## PROJECTS

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<b>dexMCP</b>	<a href="https://bit.ly/dexmcp">https://bit.ly/dexmcp</a>
<ul style="list-style-type: none"><li>Engineered Model Context Protocol (MCP) server exposing <b>5+ reusable tools</b> and <b>5+ Pydantic models</b></li><li>Implemented parameter validation across <b>20+ typed fields</b> and <b>100% of tool inputs</b></li><li>Built asynchronous clients using DSPy and LangChain to auto-discover tools and execute multi-step requests</li></ul>	
<b>SuperconGAN</b>	<a href="https://bit.ly/3z7JaqZ">https://bit.ly/3z7JaqZ</a>
<ul style="list-style-type: none"><li>Built a PyTorch-based GAN to model superconductivity data of various materials, enhancing generative AI applications</li><li>Extracted and processed <b>80,000+ dataset entries</b> from the UCI ML Repository using Pandas efficiently</li><li>Released Python package on PyPI, achieving over <b>79,000+ downloads</b> and widespread adoption</li><li>Authored a LaTeX paper on findings and future scope, <b>incorporating 500,000+ data points</b> effectively</li></ul>	
<b>Cityscape (2nd Overall at HackExeter 2021)</b>	<a href="https://bit.ly/3OZjJ07">https://bit.ly/3OZjJ07</a>
<ul style="list-style-type: none"><li>Led a <b>team of 4</b> in designing and implementing a city tour mobile app, resulting in <b>100+ vivid city tours</b> for users</li><li>Wrote controllers and models for MongoDB using MongooseORM to store <b>30+ kB of geographic data</b> in NoSQL schema</li><li>Built mobile user interface allowing users to search, review, rank, and explore <b>100+ tours</b> using Flutter/Dart</li><li>Constructed REST API using Express.js and nodemon to <b>increase development velocity by 20%</b> with hot-reloading</li></ul>	
<b>EyeQ</b>	<a href="https://bit.ly/3RsAyBL">https://bit.ly/3RsAyBL</a>
<ul style="list-style-type: none"><li>Developed Elixir-Rust NIF application to transcribe images and documents <b>up to 1 GB in size</b></li><li><b>Reduced Docker image size by 53%</b>, accelerating the build pipeline</li><li>Improved and streamlined Phoenix server and React dashboard to ensure <b>average latency is &lt; 3s</b></li></ul>	

## CERTIFICATIONS

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- 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](#)