

# Adonis Garcia

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## EDUCATION

<b>New York University, Tandon School of Engineering</b> <i>B.S. in Computer Science, Minor in Mathematics, GPA: 4.0</i> <b>Study Abroad:</b> NYU Abu Dhabi, UAE (Spring 2024/2025), Hanyang University, Seoul, Korea (Jan 2025) <b>Awards:</b> NYU Outstanding Innovator 2022, NYU Gunter Georgi 2022, NYU Scholar of the Year 2023, NYU GLASS Honors <b>Coursework:</b> Applied Machine Learning, Artificial Intelligence, Data Structures, Algorithms, Object-Oriented Programming	Expected Aug 2026 Brooklyn, NY
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## TECHNICAL SKILLS

<b>Languages:</b> Python, JavaScript, TypeScript, C#, .NET Core, SQL, Java, C++, React, Next.js
<b>ML/AI:</b> PyTorch, HuggingFace, LangChain, Pinecone, RAG, Prompt Engineering, Vector Databases
<b>Infrastructure/Tools:</b> AWS (S3, EC2, Lambda, RDS), Docker, GCP, PostgreSQL, REST APIs, CI/CD, Git, FastAPI, Agile

## EXPERIENCE

<b>Applied AI Inference Engineer</b> <i>MissionML</i>	Sep 2025 – Present Remote
<ul style="list-style-type: none"><li>Partner with federal stakeholders to architect ML solutions, translating mission requirements into production-ready systems</li><li>Built and deployed distributed ML pipelines on AWS infrastructure using Python, TypeScript, React, and PostgreSQL</li><li>Optimized inference workflows with caching and batching strategies, reducing response latency and operational costs by 80%</li><li>Maintained 99.9% uptime across 5+ clients through robust monitoring and comprehensive technical documentation</li></ul>	
<b>Software Engineer</b> <i>Bank of America</i>	May 2025 – Aug 2025 Charlotte, NC
<ul style="list-style-type: none"><li>Redesigned internal financial application using .NET Core and SQL, reducing monthly operational workload by 90%</li><li>Architected automated backend workflows using Python, reducing processing time by 95% for platform generating \$2M ARR</li><li>Led development of enterprise networking platform using Python, connecting 2000+ users with 80%+ engagement rate</li><li>Created comprehensive technical documentation and API specifications, enabling seamless cross-team collaboration</li></ul>	
<b>AI Software Engineer</b> <i>Polydelta AI</i>	Jun 2024 – Jun 2025 Arlington, VA / Hybrid
<ul style="list-style-type: none"><li>Developed production-grade LLM-powered chatbots with RAG using Python, JavaScript, TypeScript, and LangChain</li><li>Built document processing pipelines on AWS that crawled, embedded, and stored 10,000+ documents in vector databases</li><li>Constructed models to optimize legal-domain embeddings and built stakeholder demos that secured federal AI adoption</li><li>Collaborated directly with agency stakeholders to gather mission-critical requirements and customize ML solutions</li></ul>	
<b>Teaching Assistant</b> <i>NYU General Engineering Department</i>	Jul 2023 – May 2024 New York, NY
<ul style="list-style-type: none"><li>Taught weekly programming labs to 50+ students with hands-on mentorship, reducing common engineering errors by 25%</li><li>Led 30+ technical workshops on software development, AI/ML fundamentals, and engineering design for 500+ students</li></ul>	

## PROJECTS

<b>Course Q&amp;A RAG System</b>   <i>Next.js, TypeScript, FastAPI, Pinecone, PostgreSQL, AWS, Anthropic API</i>	
<ul style="list-style-type: none"><li>Built full-stack RAG application with TypeScript/Next.js for users to query documents with real-time analytics dashboard</li><li>Engineered document processing pipeline on AWS with HDBSCAN clustering to surface insights from unstructured data</li><li>Designed PostgreSQL schema for efficient storage and retrieval of 500+ documents with sub-second query times</li></ul>	
<b>Personalized CS Learning Platform</b>   <i>React, TypeScript, Node.js, Claude API, PostgreSQL, AWS</i>	
<ul style="list-style-type: none"><li>Developed full-stack web application using React and Node.js that personalizes educational content via LLM integration</li><li>Implemented structured prompt engineering with Claude API to generate contextual code examples across 8+ core concepts</li></ul>	
<b>NYUAD Hackathon for Social Good – Q-quake/جي-جي-جي</b>   <i>Python, Quantum Computing, AI, APIs, Data Science</i>	
<ul style="list-style-type: none"><li>Built hybrid earthquake early warning system using ML and quantum sensing, targeting 1+ minute warning improvements</li><li>Collaborated with global team to build pipeline fusing seismic and quantum data, winning 2nd place and Audience Choice</li></ul>	
<b>The E-Glove</b>   <i>Python, C++, Arduino, OpenCV, PySerial, Pynput, Fusion 360</i>	
<ul style="list-style-type: none"><li>Designed and built wireless glove mouse using computer vision and mechanical actuation; won two NYU innovation awards</li><li>Achieved 92% tracking accuracy by creating custom OpenCV algorithms with real-time serial communication via PySerial</li></ul>	

## LEADERSHIP & ACTIVITIES

<b>Founder and Lead Mentor</b>   <i>NYU Academic Achievement Program (AAP)</i>	May 2023 – Present
<ul style="list-style-type: none"><li>Founded NYU Tandon Gentlemen of Quality mentorship program supporting underrepresented students in STEM majors</li><li>Developed curriculum and led weekly mentorship sessions for 20+ students, improving retention rates by 30%</li></ul>	
<b>Committee Chair</b>   <i>NYU AAP Computer Science Initiative</i>	May 2024 – Present
<ul style="list-style-type: none"><li>Organized 8+ technical events per semester and led CS workshops reaching 200+ Black, Latinx, and Indigenous students</li><li>Coordinated speaker series featuring industry professionals from Google, Amazon, and Microsoft</li></ul>	