

Adonis Garcia

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EDUCATION

New York University, Tandon School of Engineering

Expected Aug 2026

B.S. in Computer Science, Minor in Mathematics, GPA: 4.0

Brooklyn, NY

Study Abroad: NYU Abu Dhabi, UAE (Spring 2024/2025), Hanyang University, Seoul, Korea (Jan 2025)

Awards: NYU Outstanding Innovator 2022, NYU Gunter Georgi 2022, NYU Scholar of the Year 2023, NYU GLASS Honors

Coursework: Applied Machine Learning, Artificial Intelligence, Data Structures, Algorithms, Object-Oriented Programming

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C#, .NET Core, SQL, Java, C++, React, Next.js

ML/AI: PyTorch, HuggingFace, LangChain, Pinecone, RAG, Prompt Engineering, Vector Databases

Infrastructure/Tools: AWS (S3, EC2, Lambda, RDS), Docker, GCP, PostgreSQL, REST APIs, CI/CD, Git, FastAPI, Agile

EXPERIENCE

Applied AI Inference Engineer

Sep 2025 – Present

MissionML

Remote

- Partner with federal stakeholders to architect ML solutions, translating mission requirements into production-ready systems
- Built and deployed distributed ML pipelines on AWS infrastructure using Python, TypeScript, React, and PostgreSQL
- Optimized inference workflows with caching and batching strategies, reducing response latency and operational costs by 80%
- Maintained 99.9% uptime across 5+ clients through robust monitoring and comprehensive technical documentation

Software Engineer

May 2025 – Aug 2025

Bank of America

Charlotte, NC

- Redesigned internal financial application using .NET Core and SQL, reducing monthly operational workload by 90%
- Architected automated backend workflows using Python, reducing processing time by 95% for platform generating \$2M ARR
- Led development of enterprise networking platform using Python, connecting 2000+ users with 80%+ engagement rate
- Created comprehensive technical documentation and API specifications, enabling seamless cross-team collaboration

AI Software Engineer

Jun 2024 – Jun 2025

Polydelta AI

Arlington, VA / Hybrid

- Developed production-grade LLM-powered chatbots with RAG using Python, JavaScript, TypeScript, and LangChain
- Built document processing pipelines on AWS that crawled, embedded, and stored 10,000+ documents in vector databases
- Constructed models to optimize legal-domain embeddings and built stakeholder demos that secured federal AI adoption
- Collaborated directly with agency stakeholders to gather mission-critical requirements and customize ML solutions

Teaching Assistant

Jul 2023 – May 2024

NYU General Engineering Department

New York, NY

- Taught weekly programming labs to 50+ students with hands-on mentorship, reducing common engineering errors by 25%
- Led 30+ technical workshops on software development, AI/ML fundamentals, and engineering design for 500+ students

PROJECTS

Course Q&A RAG System | *Next.js, TypeScript, FastAPI, Pinecone, PostgreSQL, AWS, Anthropic API*

- Built full-stack RAG application with TypeScript/Next.js for users to query documents with real-time analytics dashboard
- Engineered document processing pipeline on AWS with HDBSCAN clustering to surface insights from unstructured data
- Designed PostgreSQL schema for efficient storage and retrieval of 500+ documents with sub-second query times

Personalized CS Learning Platform | *React, TypeScript, Node.js, Claude API, PostgreSQL, AWS*

- Developed full-stack web application using React and Node.js that personalizes educational content via LLM integration
- Implemented structured prompt engineering with Claude API to generate contextual code examples across 8+ core concepts

NYUAD Hackathon for Social Good – Q-quake/كـززال | *Python, Quantum Computing, AI, APIs, Data Science*

- Built hybrid earthquake early warning system using ML and quantum sensing, targeting 1+ minute warning improvements
- Collaborated with global team to build pipeline fusing seismic and quantum data, winning 2nd place and Audience Choice

The E-Glove | *Python, C++, Arduino, OpenCV, PySerial, Pynput, Fusion 360*

- Designed and built wireless glove mouse using computer vision and mechanical actuation; won two NYU innovation awards
- Achieved 92% tracking accuracy by creating custom OpenCV algorithms with real-time serial communication via PySerial

LEADERSHIP & ACTIVITIES

Founder and Lead Mentor | *NYU Academic Achievement Program (AAP)*

May 2023 – Present

- Founded NYU Tandon Gentlemen of Quality mentorship program supporting underrepresented students in STEM majors
- Developed curriculum and led weekly mentorship sessions for 20+ students, improving retention rates by 30%

Committee Chair | *NYU AAP Computer Science Initiative*

May 2024 – Present

- Organized 8+ technical events per semester and led CS workshops reaching 200+ Black, Latinx, and Indigenous students
- Coordinated speaker series featuring industry professionals from Google, Amazon, and Microsoft