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)
Coursework: Applied Machine Learning, Data Structures, Object-Oriented Programming, Algorithms, Artificial Intelligence
Awards: NYU Outstanding Innovator 2022, NYU Gunter Georgi 2022, NYU Scholar of the Year 2023, NYU GLASS Honors

Technical Skills

Languages: Python, C, C++, Java, JavaScript, C#, .NET Core, SQL, React, TypeScript, Next.js, HTML, CSS, LaTeX
ML/Frameworks: RAG, PyTorch, NumPy, Pandas, scikit-learn, OpenCV, Matplotlib, LangChain, Pinecone, HuggingFace
Tools: Git, GitHub, Gitlab, VS Code, Jupyter, AWS, Postgres, Linux, Arduino, APIs, CI/CD, Jira, Figma, Agile, Scrum

Experience

ML Software Engineer Sep 2025 – Present
MissionML *Remote*
- Delivering full-stack ML solutions for government AI platform serving 5+ federal agencies with 99.9% uptime requirements
- Optimizing vector database queries, API pipelines and model inference pipelines, reducing response latency by 35%
- Building end-to-end ML pipelines using LangChain and vector databases, ensuring compliance with federal data standards

Software Engineering Intern May 2025 – Aug 2025
Bank of America *Charlotte, NC*
- Redesigned internal application using .NET Core and SQL, reducing monthly workload from 100's of clicks to under 10
- Architected automated backend workflows, reducing processing time by 60% and eliminating linear time complexity
- Led development of Python networking platform connecting 2000+ interns with 80%+ engagement rate
- Engineered backend data transformation services and automated validation pipelines, improving system reliability by 40%

ML Software Engineer Jan 2024 – Jun 2025
Polydelta AI *Arlington, VA / Hybrid*
- Developed LLM-powered chatbots with RAG using Python, Langchain, and Pinecone, improving average accuracy by 40%
- Architected document processing pipelines that crawled, embedded, and stored 10,000+ legal documents in vector database
- 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 support; reduced engineering errors by 25%
- Led workshops on cross-functional prototyping, coding, engineering design, AI/ML, sustainability, circuitry and more

Projects

NYUAD Hackathon for Social Good – Q-quake/ك-زلزال | *Python, Quantum Computing, AI, APIs, Data Science*
- Built hybrid earthquake system using AI/ML and quantum sensing, targeting 1+ minute warning improvements
- Collaborated with global team to fuse seismic data with quantum inputs, securing 2nd place and Audience Choice Award

Personalized CS Learning Platform | *React, Node.js, Claude API, Python, PostgreSQL, CodeMirror*
- Developed web tutoring system contextualizing CS concepts to student interests using LLM-generated personalized examples
- Implemented structured prompting with Claude API to generate themed code examples across 8-10 core concepts

Course Q&A RAG System | *Next.js, FastAPI, Pinecone, PostgreSQL, Anthropic API, HDBSCAN*
- Built role-based RAG system enabling students to query course documents with admin analytics dashboard
- Engineered document processing pipeline and HDBSCAN clustering to identify common questions and content gaps

Portfolio Website | *HTML, CSS, JavaScript, TailwindCSS, JSON, Responsive Design*
- Designed and developed a fully responsive portfolio website to showcase personal projects, skills, and experiences
- Implemented dynamic content rendering frontend using JSON and integrated TailwindCSS for a modern aesthetic

The E-Glove | *Python, C++, Arduino, OpenCV, PySerial, Pynput, Fusion 360*
- Built wireless glove mouse using computer vision and string actuation; won two NYU engineering innovation awards
- Achieved 92% tracking accuracy with OpenCV, PySerial, and smooth cursor control via C++ and Pynput

Leadership & Impact

Founder and Lead Mentor | *NYU Academic Achievement Program* May 2023 – Present
- Founded NYU Tandon Gentlemen of Quality mentorship program for underrepresented students in engineering majors

Committee Chair | *NYU AAP Computer Science Initiative* May 2024 – Present
- Organized 8 tech-focused events per semester and led CS workshops reaching 200+ Black, Latinx, and Indigenous students