

Darwhin Gomez

New York, New York

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Summary

Solutions-focused technologist with experience designing AWS architectures, automated data pipelines, and

Core Competencies

- Python (pandas, scikit-learn, seaborn, PyTorch)
- SQL / NoSQL
- AWS (EC2, S3, Lambda, RDS, DynamoDB, Glue, QuickSight, Bedrock, Macie, SageMaker)
- Azure (App Service, Functions, Storage)
- ETL/ELT (Glue, SSIS) & Data Modeling
- Generative AI (LLMs, prompt structuring, fine-tuning, guardrails)
- Data Visualization (QuickSight, Power BI)
- Security (SIEM, IDS, Active Directory, Linux)
- Automation & CI/CD
- R Programming
- Statistical Analysis & Machine Learning
- APIs (REST, FastAPI, Postman, Swagger)
- Containerization (Docker)
- Version Control (Git)
- Agile/Scrum Methodologies
- Software Development Life Cycle (SDLC)
- Microservices Architecture
- Object-Oriented Programming (OOP)
- Database (Postgre, Oracle, MySQL, MongoDB, DynamoDB)

Professional Experience

Solutions Architect Intern

Amazon Web Services (AWS), Arlington, VA (Remote/Hybrid)

Jun 2025 – Sep 2025

- Designed and presented secure, scalable AWS reference architectures for enterprise customers.
- Built POCs combining Bedrock LLMs with Athena/Glue/Lambda analytics to deliver actionable sentiment insights.
- Automated a sentiment-analysis pipeline processing 1M+ records and surfaced real-time QuickSight dashboards.
- Fine-tuned models in SageMaker using instruction training, improving accuracy by ~5% and reducing token costs.

Software Developer Intern

WOPLLI Technologies , Remote, NY

Jun 2024 – Sep 2024

- Designed a Virtual Credential System for decentralized identity ecosystems.
- Configured and tested Azure cloud environments for application hosting and deployment.
- Produced data-flow and architecture diagrams aligned with governance policies.
- Developed API integration and testing scripts using Postman.

IT Support Intern

Mayor's Office of Information Services , New York, NY

Feb 2024 – May 2024

- Automated troubleshooting workflows via Python scripts to reduce manual workload.
- Monitored logs and CrowdStrike dashboards to escalate abnormal activities.
- Supported VIP users with secure access (Active Directory, VPN, VOIP).

IT Instructor Assistant

RF CUNY & Generation USA (Choose-U) , Remote, NY

Feb 2022 – Aug 2023

- Delivered 36 lessons covering IT support, Linux, PowerShell, and scripting for 200+ learners.
- Maintained a 96% cohort graduation rate through data-driven instruction.

Projects

Alfred – Personal Agentic Job Search Assistant

- Designed and developed a personal agentic job search assistant using FastAPI (Python) and OpenAI GPT-4o.
- Implemented a Retrieval-Augmented Generation (RAG) system using a PostgreSQL database with pgvector.
- Established a CI/CD pipeline and Docker deployment for the FastAPI server and database.

Education

Master of Science – Data Science and Machine Learning

City University of New York – School of Professional Studies

Expected Jan 2026

- GPA 4.0, Dean's List 2x

Bachelor of Technology – Computer Information Systems

City University of New York – NYC College of Technology

Jun 2024

- GPA 3.78, Dean's List (5x), National Honor Society

Certifications

- AWS Certified Solutions Architect – Associate
- AWS Certified AI Practitioner – Generative AI
- Google Cybersecurity Certificate
- Google Information Support Certificate

Additional Information

Interests and Social Activities

- AI Ethics and Responsible AI - CUNY SPS AI Club
- NYHackR R based community
- Society of Hispanic Professional Engineers
- Science Fiction Literature
- Chess
- Basketball
- Poker