

Darwhin Gomez

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Location: New York, New York

[LinkedIn](<https://www.linkedin.com/in/darwhin>)

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Summary

Solutions-focused technologist with experience designing AWS architectures, automated data pipelines, and machine learning models. Specialized in integrating AI with AWS services like Lambda, Glue, and SageMaker. Proficient in Python, SQL, and various AWS services.

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 (PostgreSQL, 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 analysis.
- 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 toxic outputs.

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.
- Managed relations with 3rd-party vendors to ensure timely delivery of project components.
- Researched emerging technologies in decentralized identity.

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).
- Refurbished and tracked over 800 devices for redeployment across city agencies.
- Maintained IT asset inventory using ServiceNow.
- Delivered white glove support on over 100 tickets with excellent service reviews.

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.
- Developed comprehensive testing materials to assess student progress.
- Created a database using Google Sheets to track student engagement and proficiency across modules.

Projects

Alfred – Personal Agentic Job Search Assistant

- FastAPI + OpenAI GPT-4 Mini system that automates resume and cover-letter generation with RAG.
- Implemented GitHub ingestion and job-board APIs for sourcing opportunities.
- Built Resume/Cover Letter pipelines leveraging cosine similarity to match jobs.
- Reduced time to apply by 60% and boosted weekly applications by 300%.
- Designed a PostgreSQL + pgvector schema for storing embeddings and job data.

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