

# Darwhin Gomez

New York, New York

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## ## Summary

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

## ## 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 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.

### ### 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-4 API.
- Implemented a Retrieval-Augmented Generation (RAG) system using a PostgreSQL database with pgvector extension.
- Established a CI/CD pipeline and Docker deployment for the FastAPI server and database, ensuring robustness and scalability.

### ## 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