

Darwin Gomez

Location: New York, New York

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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 Big Data and Cloud 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)
- Algorithms, Data Structures, Clustering Algorithms, Regression Analysis, Classification Techniques, Random Forests, Gradient Boosting

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.
- Participated in cybersecurity training and phishing simulations to enhance organizational security posture.

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.
- Developed curated resources and study guides to supplement learning.

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 full CI/CD pipeline for automated testing and deployment through GitHub Actions.
- Designed a PostgreSQL + pgvector schema for storing embeddings and job data.
- Integrated OpenAI GPT-4.1 mini for dynamic document generation based on job descriptions.
- Integrated Google Generative AI for enhanced content creation and refinement.
- Created a model evaluation framework to assess output quality and relevance.

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