

Elias Velazquez

Data Engineer AWS

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Professional Summary

Data Engineer specializing in cloud-native data pipelines and event-driven architectures on AWS. Experienced in building scalable ingestion systems, processing large structured datasets, and integrating data lakes with analytical warehouses such as Snowflake. Strong background in Python, SQL, and DataOps practices, with a focus on automation, reliability, and maintainable data platforms.

Core Skills

Languages: Python (advanced), SQL (advanced), Bash

AWS: Lambda, S3, SQS, DynamoDB, EventBridge, Step Functions, RDS, EC2, IAM, API Gateway, CloudWatch

Data Engineering: ETL/ELT, data modeling, data validation, data warehousing fundamentals

DataOps & IaC: GitOps, automation with Python/Linux, GitHub Actions CI/CD, IaC foundations (Terraform)

Containers: Docker; ECS (Fargate)

Other Tools: Git, Snowflake, Linux

Professional Experience

Data Engineer — Vordentech

Feb 2024 – Present

- Designed and implemented a multi-stage financial data ingestion architecture integrating AWS S3, ECS/Fargate, Lambda, and Snowflake.
- Built a containerized, event-driven pipeline that processes large fixed-width financial files and separates multi-tenant data into tenant-specific datasets.
- Implemented streaming and chunk-based processing in Python (pandas) to handle large files efficiently without exceeding memory limits.
- Developed a custom parser for legacy fixed-width financial formats (COBOL-style field definitions), including signed numeric fields and specialized date encodings.
- Designed a schema-driven ingestion pipeline that dynamically creates Snowflake tables and loads data from S3.
- Implemented idempotent ingestion logic to support concurrent executions and prevent duplicate table creation.
- Improved pipeline performance and system scalability through refactoring of legacy Python services (runtime reduction ~35%).
- Applied DataOps practices including Git workflows, CI automation, containerized development, and infrastructure scripting.
- Collaborated directly with international stakeholders to clarify requirements and deliver production-grade data pipelines.

Projects & Leadership

Community Leadership

- Founder of Share IT, a growing community of 200+ tech professionals who share knowledge and learn together. Lead discussions, organize exchanges of ideas, and foster a collaborative learning environment.

Technical Content and Blog

- Built and maintain a technical blog focused on Data Engineering, Cloud Computing, and Software Development. Active contributor on LinkedIn and X, sharing technical insights and resources for the data community.
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Education

- Technical Degree in Data Science and Artificial Intelligence — Universidad Nacional de Chilecito (Mar 2026 – Present)
 - Coursework: statistics, machine learning fundamentals, data analysis, and mathematical foundations for data science.

Certifications & Professional Training

- AWS Solutions Architect — In progress
 - Associate Data Engineer in SQL — DataCamp, 2024
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Languages

- English: C1
- Spanish: Native