

Elena Marquez

Senior Data Engineer

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SUMMARY

Senior Data Engineer focused on event platforms and data contracts. Builds reliable data products with Kafka, Spark, Snowflake, dbt, OpenLineage, connects engineering decisions to measurable operations, and communicates clearly with cross-functional teams.

WORK EXPERIENCE

Senior Data Engineer
Atlas Education Cloud

1/2022 - Present

- Designed Kafka and Spark pipelines for event platforms and data contracts at Atlas Education Cloud; while partnering with product, platform, and finance leads, processing 720 million events daily, and raised on-time delivery from 92% to 99.6%.
- Reworked Snowflake models and partitioning for the Cross-Product Data Contracts warehouse; coordinated a 9-person engineering group, cutting median query time from 24 seconds to 4.1 seconds.
- Instrumented schema, freshness, and lineage checks across 38 production tables for event platforms and data contracts; worked with 14 analysts, reducing data incidents by 63%.
- Automated backfills, alerts, and runbooks around dbt jobs in San Diego, CA; supported 12 markets and saved 86 on-call hours per quarter.

Data Platform Engineer
Atlas Education Cloud Data Studio

4/2019 - 12/2021

- Designed Kafka and Spark pipelines for event platforms and data contracts at Atlas Education Cloud; with analysts, SREs, and domain owners across the delivery squad, processing 720 million events daily, and raised on-time delivery from 92% to 99.6%.
- Reworked Snowflake models and partitioning for the Cross-Product Data Contracts warehouse; coordinated a 6-person engineering group, cutting median query time from 24 seconds to 4.1 seconds.
- Instrumented schema, freshness, and lineage checks across 38 production tables for event platforms and data contracts; worked with 5 application teams, reducing data incidents by 63%.
- Automated backfills, alerts, and runbooks around dbt jobs in San Diego, CA; supported 4 business units and saved 86 on-call hours per quarter.

EDUCATION

Master of Science - Computer Science and Data Systems
University of California, San Diego

9/2015 - 6/2019

SKILLS

Core stack: Kafka, Spark, Snowflake, dbt, OpenLineage

Delivery: Data modeling, Data quality, CI/CD, Observability, Documentation

Collaboration: Requirements workshops, Incident response, Mentoring, Agile delivery

PROJECTS

Cross-Product Data Contracts

Built a governed data product for event platforms and data contracts, with documented ownership, tested transformations, and an analyst-ready serving layer.

LANGUAGES

English (Native) **Spanish** (Professional working proficiency)

CERTIFICATIONS

AWS Certified Data Analytics - Professional Training Board (2024)

Data Reliability Workshop - Data Engineering Guild (2023)