

# Antonio Valenzuela

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## SUMMARY

Data Engineer with 4 years and 9 months of experience building production **data platforms**, event driven services, and cloud ingestion workflows for connected device and operational data. Develops Python and Java services that move high volume streaming and batch data through AWS environments while protecting reliability, traceability, and data quality across distributed systems. Hands on work includes Kinesis, S3, DynamoDB, EventBridge, CloudWatch, SQL, relational and **NoSQL databases**, REST APIs, **OAuth 2.0**, microservices, **automated testing**, and CI/CD. Translates product requirements into mappings, interfaces, validation controls, documentation, and maintainable architectures. Works closely with agile teams to diagnose production issues, improve system behavior, and coordinate dependable releases. Ready to contribute practical integration, testing, architecture, and critical thinking skills to large scale data platforms.

## EXPERIENCE

### Data Engineer II

January 2025 - Present

Lakefront Mobility Analytics

*Milwaukee, WI*

Owns event driven ingestion and backend services for connected equipment telemetry, supporting streaming workloads, data quality, production reliability, and coordinated software releases.

- Designed **Python** ingestion services with Kinesis and **EventBridge** for connected equipment telemetry.
- Built S3 and DynamoDB workflows supporting reliable storage for high volume operational data.
- Delivered **OAuth 2.0** REST **integrations** with clear contracts and resilient failure handling.
- Implemented SQL reconciliation and schema validation across distributed streaming workflows.
- Added automated tests and **data quality** controls for transformation and service interfaces.
- Used CloudWatch metrics, logs, and alarms to resolve failures and tune throughput.
- Translated requirements into mappings, sequence flows, storage decisions, and technical documentation.
- Released Python and Java services through Jenkins, **Azure DevOps**, and Jira workflows.

### Data Engineer

July 2023 - December 2024

Prairie Edge Software

*Madison, WI*

Built cloud ingestion components and backend services that combined APIs, databases, and files into standardized batch and near real time workflows.

- Built Python and **Java** ingestion components for API, database, and file sources.
- Created **S3** and **DynamoDB** pipelines supporting scheduled batch and near real time updates.
- Modeled operational datasets with **SQL** and relational database structures for reporting.
- Applied NoSQL storage patterns for high volume key based access requirements.
- Developed unit, integration, and data validation tests around transformations and interfaces.
- Investigated production incidents through application logs and **CloudWatch** telemetry.
- Delivered durable corrections after tracing failures across distributed ingestion workflows.
- Shipped agile enhancements through Jira, peer review, documentation, and **CI/CD** jobs.

### Junior Data Engineer

January 2022 - June 2023

Great Lakes Data Works

*Green Bay, WI*

Developed supervised processing jobs, integrations, validation routines, and support documentation for equipment data moving through established ingestion services.

- Developed **Python** jobs converting equipment files and API responses into structured records.
- Wrote SQL validation routines comparing source counts and transformation outputs for **production** loads.
- Implemented REST integrations and database connectors within an established microservice framework.
- Maintained S3 landing areas using naming, metadata, and retention conventions.
- Updated **DynamoDB** tables supporting recurring equipment ingestion and operational lookups.
- Added automated tests to Python services before scheduled release activities.
- Reviewed **Jenkins** build results and reported issues through established support channels.
- Documented source mappings, processing steps, and procedures for recurring ingestion issues.

## PROJECTS

### Connected Equipment Stream Modernization 📅 2025

Created a reference architecture for streaming telemetry, combining Kinesis, EventBridge, S3, DynamoDB, validation controls, and CloudWatch monitoring. Work clarified data movement and operational support needs.

**Secure Integration Workflow** 📅 2024

Mapped REST interfaces, OAuth 2.0 controls, SQL reconciliation, and automated tests into a practical integration workflow for dependable service communication and data quality.

**LEADERSHIP & AWARDS**

- Received AWS Certified Developer recognition in 2026 after completing production focused cloud development preparation.
- Earned peer trust for diagnosing difficult pipeline failures and turning recurring issues into durable corrections.
- Provided release guidance across engineering teams through clear mappings, documentation, and practical testing support.

**EDUCATION**

**Bachelor of Science in Computer Science** 2021

University of Wisconsin-Milwaukee GPA: 4.0 Milwaukee, WI

*Coursework: Data Structures, Database Systems, Software Engineering, Distributed Systems*

**CERTIFICATIONS**

- AWS Certified Developer Associate 📅 2026
- AWS Certified Cloud Practitioner 📅 2026

**TECHNICAL SKILLS**

- **Programming Languages:** Python, Java, SQL
- **AWS Streaming:** Kinesis, EventBridge, real time ingestion
- **AWS Storage:** S3, DynamoDB, data retention
- **Cloud Monitoring:** CloudWatch, metrics, logs
- **Integration Services:** REST APIs, OAuth 2.0, API contracts
- **Database Systems:** SQL, relational databases, NoSQL databases
- **Data Processing:** Batch processing, transformations, validation
- **Software Architecture:** Microservices, event driven architecture, distributed systems
- **Quality Engineering:** Unit testing, integration testing, data quality
- **Delivery Tools:** Jenkins, Azure DevOps, Jira
- **Development Methods:** Agile, peer review, requirements mapping
- **Documentation:** Data flows, source mappings, interface documentation

**SKILLS**

- |               |               |                       |                     |
|---------------|---------------|-----------------------|---------------------|
| • Python      | • Amazon S3   | • Microservices       | • OAuth 2.0         |
| • Java        | • DynamoDB    | • Real time ingestion | • Data quality      |
| • SQL         | • EventBridge | • Batch processing    | • Automated testing |
| • AWS Kinesis | • CloudWatch  | • REST APIs           |                     |

**PROFESSIONAL AFFILIATIONS**

- AWS community member, following cloud development practices and sharing practical lessons from data platform delivery.
- Agile engineering participant, contributing peer review, planning, documentation, and steady improvement across delivery teams.

**LANGUAGES**

- English (Native)
- Spanish (Proficient)

**ADDITIONAL INFORMATION**

**Work Status** : Authorized to work in United States. No sponsorship required.

**REFERENCES**

AVAILABLE ON REQUEST