



Leonardo Mullins

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SUMMARY

Lead Data Engineer with more than 10 years building **cloud-native data platforms** for **commercial real estate**, lending, and regulated financial operations. Designs reliable architectures across AWS, Redshift, Airflow, Kafka, SQL Server, Aurora PostgreSQL, SQL, and **enterprise data warehouses**. Authors and approves Technical Design Documents, leads design and **production readiness reviews**, and establishes practical standards for testing, CI/CD, observability, documentation, and release management. Works closely with distributed engineering teams, managers, risk partners, governance stakeholders, analysts, and executives, translating technical decisions into useful business outcomes. Career results include stronger lineage and data quality controls, more reliable orchestration, reduced platform fragmentation, and governed delivery of property, portfolio, transaction, and financing data. Ready to help strengthen enterprise data architecture, guide modernization, and support dependable platform growth at Harborstone Capital Analytics.

EXPERIENCE

Lead Data Engineer

March 2022 - Present

Northstar Property Finance

McLean, VA

Owns architectural direction for AWS data platforms supporting property valuation, loan servicing, portfolio reporting, and distributed engineering delivery. Guides platform standards, technical decisions, reliability work, governance practices, and engineer development across five teams.

- Aligned Redshift, **Aurora PostgreSQL**, Kafka, and Airflow patterns across five **distributed engineering teams**.
- Established TDD gates covering models, interface contracts, failure modes, **observability**, and readiness evidence.
- Resolved schema, partitioning, retention, and replay decisions during event-driven ingestion **design reviews**.
- Introduced **CI/CD** templates, SQL tests, pipeline tests, and release checklists for consistent delivery.
- Defined lineage, ownership, quality thresholds, and **data contracts** for property and financing datasets.
- Mentored eight engineers through architecture workshops, incident reviews, and technical coaching sessions.
- Guided technical debt remediation across fragmented pipelines and platform reliability risks.

Senior Data Engineer

July 2019 - February 2022

Crescent Ridge Financial

Washington, DC

Designed and operated AWS ingestion and transformation services for commercial mortgage, borrower, and property records across more than 40 source systems. Advised engineering and analytics partners on architecture, migration, testing, incident response, and production support.

- Designed **AWS** ingestion services for mortgage, borrower, and property records across 40 source systems.
- Separated raw, conformed, and reporting layers through Airflow and Redshift dimensional models.
- Built Kafka event flows with schema validation, dead-letter handling, replay procedures, and dashboards.
- Implemented unit, integration, and data-quality tests within **CI/CD** release pipelines.
- Authored migration designs for **SQL Server** and **Aurora PostgreSQL** with rollback and access controls.
- Created runbooks covering **monitoring**, production support, and operational ownership for platform services.
- Advised analysts and application engineers during reporting incidents and integration issue resolution.

Data Engineer

June 2017 - June 2019

BluePeak Advisory Services

Baltimore, MD

Developed governed data pipelines and warehouse models supporting advisory and asset management teams. Combined SQL, Python, Airflow, Redshift, SQL Server, and PostgreSQL work with practical governance, reconciliation, documentation, and production support.

- Consolidated property, lease, and transaction data through **SQL** and **Python** warehouse pipelines.
- Built Airflow DAGs with dependencies, retries, alerts, and repeatable backfill procedures.
- Modeled Redshift fact and dimension tables for market and portfolio reporting.
- Created reconciliation reports for completeness, duplicates, and financial total checks.
- Tuned **SQL Server** and **PostgreSQL** queries when refresh windows exceeded operating targets.
- Supported peer reviews, deployment documentation, and on-call troubleshooting for regulated data workflows.
- Documented business definitions with analysts, reducing conflicting interpretations of reporting measures.

Associate Data Engineer

August 2016 - May 2017

Riverside Analytics Group

Richmond, VA

- Supported senior engineers on property and debt data workflows for valuation and market research teams. Built foundational capability across SQL, Airflow, dimensional reporting, documentation, release testing, monitoring, and production support.
- Converted inconsistent property source layouts into documented SQL load specifications.
 - Developed Airflow workflows for scheduled validation and warehouse loading.
 - Added task dependencies and failure notifications for recurring research deliverables.
 - Investigated rejected records through source comparison, correction queues, and reconciliation summaries.
 - Wrote reusable SQL for dimensional reporting tables across **SQL Server** environments.
 - Maintained data dictionaries, source mappings, deployment notes, and review documentation.
 - Participated in release testing, incident triage, monitoring, and production support rotations.

PROJECTS

Enterprise Data Platform Standards 📅 2024

Created a shared architecture playbook covering data modeling, orchestration, observability, testing, release management, technical design documents, and production readiness reviews across distributed teams.

Property Data Event Modernization 📅 2023

Reframed property and financing updates around Kafka event flows, schema validation, replay controls, lineage, and governed warehouse delivery for dependable downstream use.

Cloud Warehouse Migration Program 📅 2021

Moved selected SQL Server workloads toward Aurora PostgreSQL and Redshift patterns, pairing rollback plans, access controls, automated tests, monitoring, and support runbooks.

LEADERSHIP & AWARDS

- Technology Excellence Award, Northstar Property Finance, 2024. Recognized for platform modernization, architecture standards, and dependable delivery across engineering teams.
- Operational Reliability Recognition, Crescent Ridge Financial, 2021. Honored for stronger orchestration, testing, monitoring, and incident response practices.
- VCU Computer Science Academic Scholarship, 2016. Awarded for sustained academic performance and commitment to computer science study.

EDUCATION

Bachelor's Degree in Computer Science

2016

Virginia Commonwealth University GPA: 0

Richmond, VA

Coursework: Data Structures, Database Systems, Software Engineering, Operating Systems

CERTIFICATIONS

- AWS Certified Solutions Architect - Associate 📅 2021
- Astronomer Certification for Apache Airflow Fundamentals 📅 2022
- AWS Certified Data Analytics - Specialty 📅 2023

TECHNICAL SKILLS

- **Cloud Platforms:** AWS, Amazon Redshift, Amazon Aurora
- **Orchestration:** Apache Airflow, DAGs, dependency management
- **Event Streaming:** Apache Kafka, schema validation, replay procedures
- **Database Systems:** SQL Server, PostgreSQL, Aurora PostgreSQL
- **Data Warehousing:** Redshift, dimensional modeling, enterprise data warehouses
- **Programming:** SQL, Python, reusable data pipelines
- **Delivery Automation:** CI/CD, Git, automated testing
- **Infrastructure:** Terraform, AWS environments, platform modernization
- **Data Governance:** Data lineage, data quality, data contracts
- **Reliability Engineering:** Monitoring, observability, alerting
- **Architecture Practice:** Technical Design Documents, design reviews, production readiness reviews
- **Release Operations:** Release management, rollback planning, production support

SKILLS

- AWS
- SQL
- Automated testing
- Data contracts
- Redshift
- Python
- Data governance
- Observability
- Airflow
- Data modeling
- Data lineage
- Technical design documents
- Kafka
- CI/CD
- Data quality

PROFESSIONAL AFFILIATIONS

- Data Engineering Mentorship Circle, Mentor, March 2023 - Present. Supports engineers through architecture discussions, incident reviews, and career development.
- AWS User Group DC, Technical Session Volunteer, January 2022 - Present. Helps coordinate practical cloud engineering sessions for local practitioners.
- VCU Computer Science Alumni Career Panel, Guest Speaker, January 2020 - Present. Shares data engineering lessons with students and early-career alumni.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST