

# DAKOTA HOLLMANN

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## Lead Data Engineer · Data Platform Architecture · Cross-Functional Leadership

Lead-level data engineer with 10+ years in data and analytics. Currently architecting and optimizing enterprise-scale telemetry ingestion pipelines processing **165B+ rows/hour** for 30M+ customers within a Medallion (raw/ingest/enriched) architecture — with observability, error handling, and resilience as first-class requirements. I lead key implementation efforts and engineering standards adopted across teams, partner with cross-functional and external teams to deliver end-to-end data solutions, and serve as a go-to subject-matter expert for AWS and data architecture. Recognized repeatedly for technical depth and cross-team delivery, and for pioneering AI-augmented engineering adoption. MBA in Data Analytics (FGCU, 2026) grounds every architectural decision in measurable business impact.

## TECHNICAL SKILLS

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- **Languages:** SQL (Expert: Spark SQL, Snowflake, Athena/Trino; DDL/DML), Python (ETL, orchestration, validation, utility frameworks), Bash/Shell Scripting, JSON/YAML, VBA
- **Cloud Infrastructure:** AWS (S3, EMR, Lambda, Step Functions, EventBridge, Redshift, Athena, Glue), Snowflake; DataDog (cost/performance observability)
- **Big Data & ETL:** Spark (PySpark), Airflow (exposure), event-driven & serverless pipelines, partition/timezone-aware processing, Parquet/zstd optimization, Pandas, Informatica PowerCenter
- **Data Architecture:** Medallion architecture, data warehousing & dimensional modeling (Star/Snowflake, SCD Type 2), canonical schema & reference-data modeling, data lake design, observability-first pipeline design, FinOps
- **Data Visualization & Reporting:** Tableau, Power BI, Alteryx, JIRA Dashboards (JQL), SSMS, DataGrip
- **Standards & Practices:** ETL/ELT design, data quality control & validation, unit-test frameworks, CI/CD (GitLab/GitHub), AI-augmented development, Agile/Scrum, technical documentation

## PROFESSIONAL EXPERIENCE

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### CHARTER SPECTRUM

Greenwood Village, CO

Senior Data Engineer (Contract)

Dec 2023 – Present

- **Pipeline Architecture & Optimization:** Designed the initial architecture of an enterprise telemetry ingestion pipeline now processing **165B+ rows/hour** for 30M+ customers — applying compression and partitioning strategies within a Medallion (raw → ingest → enriched) architecture, with observability, error handling, and retry logic as first-class requirements.
- **End-to-End, Cross-Team Delivery:** Led a multi-year platform re-platform and migration (15+ production jobs, 80+ tables) across ETL, product, and IT teams — coordinating internal and external partners, refining requirements, and building automated idempotent rollback tooling that cut a manual multi-hour process to minutes.
- **Performance & FinOps:** Delivered an estimated **\$35K+ in annualized recurring cloud compute/storage savings** through job optimization, legacy HiveQL → Spark on EMR modernization (~5 hours of daily runtime removed), and storage reclamation — while balancing the capacity investments needed to keep mission-critical, exponentially-growing data within SLA.
- **Engineering Standards & Reliability (SME):** Built reusable, unit-tested utilities and frameworks adopted as team standards (timezone-safe processing, serverless API ingestion, pre-compute data-quality checks) and set standards for code structure and cloud fleet configuration; authored **140+ unit tests** and **400+ documentation updates** reused across teams.
- **Complex Data Modeling:** Designed large, standardized reference-data models through extensive multi-source exploratory analysis to define and validate complex data relationships now used team-wide.
- **Technical Leadership, Mentorship & AI Innovation:** Onboarded and upskilled **6 engineers**, own code reviews against optimization and standards, and lead cross-functional troubleshooting — sustaining high delivery (**180+ completed work items, 230+ merged code changes**). Pioneered the team's AI-augmented engineering: among the first to pilot enterprise AI coding tools (Copilot, Amazon Q), built internal AI agents and a centralized standards/config library, and serve on a company AI enablement initiative. Recognized **15+ times** by peers and leaders.

### DISH NETWORK (WIRELESS)

Littleton, CO

5G Senior Data Analyst

Mar 2023 – Dec 2023

- **FCC Compliance Automation:** Engineered an automated site-validation framework in **Alteryx**, replacing manual reviews to support the **June 14, 2023 FCC 5G deployment commitment**; scaled audit capacity from 4 sites/day to unlimited automated runs, reducing per-site review from ~2 hours to 5 minutes (**90%+ reduction**).
- **Multi-Source Data Integration:** Architected the data-polling layer and service-account structure for executive 5G rollout dashboards, consolidating fragmented datasets across **Redshift, Athena, and Snowflake** into a unified analytical view.

- **Technical Leadership:** Served as **Technical Lead** for an organization of 14 Analysts and Engineers, including direct coordination of an offshore data resource; standardized 20+ documentation resources and onboarding protocols.

## ARROW ELECTRONICS

ETL Engineer II

Centennial, CO

May 2022 – Mar 2023

- **Stakeholder Data Visibility (Self-Initiated):** Identified that executive complaints about data delivery were entirely anecdotal and self-initiated a global SLA visibility platform — normalizing raw job-performance logs from Hadoop (**90% storage reduction**), building regional attribution across Americas, EMEA, and Asia, and delivering **Power BI** dashboards that replaced anecdotal claims with evidence-based decisions at the Director level.
- **Enterprise Warehouse Architecture:** Developed and tuned complex ETL workflows (Informatica, Oracle, Teradata) supporting a **multi-terabyte, 24/7 global supply chain** warehouse with **93–96% SLA accuracy** across three continents.

Technical Product Owner II

Feb 2022 – May 2022

- **Agile Delivery:** Prioritized backlogs and managed delivery across **3 Agile sub-teams**, bridging 10+ business stakeholders and 20+ technical members; presented Agile-maturity gap analyses to Director-level leadership.

## DISH NETWORK

Software Engineer III – Database Development

Englewood, CO

Jun 2021 – Feb 2022

- **Enterprise Cloud Migration:** Owned end-to-end UAT and technical validation of **150+ database objects** in a large-scale **Teradata** → **AWS Redshift** migration; served as single point of contact between leadership and IT Data Warehouse engineering.
- **Compliance Automation:** Designed and implemented a schema-isolated, policy-driven automated data-retention system enforcing **CCPA and legal-hold rules** — replacing a fragile manual process with an auditable, access-controlled execution engine that remained in production years after my departure.
- **DevOps Standards & Enablement:** Spearheaded **Git adoption** for a team of 8 Data Engineers; coached **100+ business users** on cloud-native data practices post-migration.

Analyst I → Sr. Analyst

May 2018 – Jun 2021

- **High-Volume Operations & Financial Impact:** Managed queue logic and staffing models for **100K+ daily customer contacts** and **2,000+ FTEs** across 5 lines of business; delivered **\$250K+ in annual cost savings** through custom efficiency reporting and workflow optimization. Mentored **7 analysts** on SQL, VBA automation, and visualization.

Prior Roles: DISH CSR → Team Lead → WFM Specialist (2016–2018), GameStop Game Advisor → Sr. Game Advisor (2012–2016).

## EDUCATION

<b>MBA, Data Analytics</b> — Florida Gulf Coast University	2026
<b>BS, Computer Science</b> (Minor in Mathematics) — Metropolitan State University of Denver	2022
<b>Associate of General Studies</b> — Arapahoe Community College	2020
<b>Associate of Arts &amp; Sciences, Education</b> — Southwest Virginia Community College	2017

## VOLUNTEER ACTIVITIES & LEADERSHIP

**Metropolitan State University of Denver** — Alumni Speaker, CS & DSML Advisory Boards May 2020 – Present

- Appointed to the CS and Data Science & Machine Learning Advisory Boards to guide curriculum alignment with industry demand and ABET standards; delivered 10+ guest lectures on SQL/database internals and technical interview preparation.
- Invited by CS faculty to teach **Fundamentals of Database Systems** (anticipated Spring 2027); finalizing arrangements through the university.
- Featured in the Department of CS Newsletter for contributions to student outcomes and success strategies for overcoming socioeconomic obstacles in tech.