

# DAKOTA HOLLMANN

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## PERSONAL SUMMARY

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Lead Data Engineer | Data Strategy & Cost Optimization

Strategic data leader with over 8 years of experience in data and analytics, focusing on high-throughput pipeline development and cost efficiency. Currently managing critical telemetry ingestion at a scale of 43B+ rows per hour (~6TB/day) & delivering robust data solutions for 30M+ customers. Proven "Force Multiplier" who bridges the gap between executive targets and engineering execution, leveraging an MBA in progress to align technical output with business profitability. Skilled in Python/SQL-native environments, with a focus on mentoring teams and modernizing legacy ETL into efficient cloud-native workflows.

## TECHNICAL SKILLS

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- Languages: SQL (Expert: T-SQL, Spark SQL, Snowflake), Python (ETL & Automation), Bash/Shell Scripting, VBA
- Cloud Infrastructure: AWS (S3, EMR, Lambda, Step Functions, EventBridge, Redshift, Athena), Snowflake
- Big Data & ETL: Spark (PySpark), Airflow (Exposure), Pandas, Informatica PowerCenter
- Methodology: Analytics Engineering, Data Modeling (Star/Snowflake), ETL/ELT Design, CI/CD (GitLab), Agile/Scrum
- Analytics & Viz: Tableau, Power BI, SSMS, DataGrip

## PROFESSIONAL EXPERIENCE

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### CHARTER SPECTRUM

Greenwood Village, CO

Senior Data Engineer (Contract)

Dec 2023 – Present

- **Massive-Scale Telemetry:** Engineered high-throughput ingestion and analysis pipelines for Wi-Fi performance telemetry, managing logic that processes **43B+ rows per hour (~6TB/day)** to support network optimization for a 30M+ customer enterprise
- **API Ingestion Framework:** Developed a serverless ingestion engine using **AWS Lambda, Python, and Athena** to poll JIRA APIs, flatten complex nested JSON responses, and automate partition-loading into S3 via parquet, bypassing high EMR-to-external network costs
- **Performance Optimization:** Migrated legacy HiveQL workloads to **Spark on EMR 6.x**, reducing daily runtimes by 5 hours and securing **\$10K in annual compute cost savings**
- **Engineering Standards:** Advanced the team's Python maturity by authoring a modular utility framework (8+ scripts) utilizing **inheritance and unit-testing (141+ tests)**, establishing high-reliability patterns for cross-repository code maintenance
- **Operational Resilience:** Automated enterprise-level redundancy and disaster recovery workflows, supported by **400+ technical documentation updates** to standardize knowledge transfer across the engineering org
- **Technical Mentorship:** Led the technical onboarding and professional development of 6 **Data Engineers**, conducting detailed code reviews and guiding team-wide best practices for **AWS and Git**-based workflows

### DISH NETWORK (WIRELESS)

Littleton, CO

5G Senior Data Analyst

Mar 2023 – Dec 2023

- **FCC Compliance Automation:** Engineered an automated site-validation framework using Alteryx, replacing manual reviews to support the **June 14, 2023 FCC 5G deployment commitments**
- **Operational Throughput:** Increased audit capacity from 4 sites/day to unlimited automated audits, reducing individual site review time from **~2 hours to 5 minutes (90%+ reduction)**
- **Technical Leadership:** Served as **Technical Lead** for an organization of 14 Analysts and Engineers, including the direct management of an India-based data resource
- **Data Enablement:** Architected the data-polling layer and sourced service accounts for executive 5G rollout dashboards, utilizing **Redshift, Athena, and Snowflake** to consolidate multi-cloud datasets
- **KPI Governance:** Standardized 20+ documentation resources and technical onboarding protocols to align site-integration KPIs across disparate engineering business units

## ARROW ELECTRONICS

ETL Engineer II

Centennial, CO

May 2022 – Mar 2023

- **Warehouse Optimization:** Developed and tuned complex ETL workflows (Informatica, Oracle, Teradata) supporting a **multi-terabyte, 24/7 global supply chain** warehouse
- **Storage Efficiency:** Engineered a Hadoop-to-SQL pipeline that achieved a **90% reduction in storage footprint** through advanced normalization and SQL tuning
- **Global SLA Performance:** Constructed rolling performance dashboards to track operational SLA metrics with **93–96% 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 communication between 10+ business stakeholders and 20+ technical members
- **Strategic Analysis:** Presented gap analyses to Director-level leadership regarding Agile maturity and prioritization standards to improve team velocity

## DISH NETWORK

Software Engineer III - Database Development

Englewood, CO

Jun 2021 – Feb 2022

- **Enterprise Cloud Migration:** Orchestrated the UAT and technical validation of **150+ database objects** during a large-scale **Teradata to AWS Redshift** migration
- **System Modernization:** Coached **100+ business users** on cloud-native data practices and coordinated with CX teams to ensure production readiness post-migration
- **Lifecycle Automation:** Designed and implemented automated archiving and trimming scripts across **10+ production servers**, significantly reducing manual maintenance and improving data lifecycle management
- **DevOps Leadership:** Spearheaded the **Git adoption and implementation project** for a team of 8 Data Engineers, establishing version control standards where none previously existed

Analyst I → Sr. Analyst

May 2018 – Jun 2021

- **High-Volume Operations:** Managed complex queue logic and staffing models for **100K+ daily customer contacts** and **2,000+ FTEs** across 5 distinct lines of business.
- **Financial Impact:** Identified and delivered **\$250K+ in annual cost savings** through the development of custom efficiency reporting and workflow optimizations
- **Mentorship:** Mentored **7 business analysts** on SQL development, VBA automation, and data visualization best practices to scale team capacity

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

## EDUCATION

### FLORIDA GULF COAST UNIVERSITY

Master of Business Administration, Data Analytics

Fort Myers, FL

Expected 2026

### METROPOLITAN STATE UNIVERSITY OF DENVER

Bachelor of Computer Science, Minor in Mathematics

Denver, CO

2022

### ARAPAHOE COMMUNITY COLLEGE

Associate of General Studies

Littleton, CO

2020

### SOUTHWEST VIRGINIA COMMUNITY COLLEGE

Career Studies Certificate - Computer Repair Technician

Cedar Bluff, VA

2018

### SOUTHWEST VIRGINIA COMMUNITY COLLEGE

Associate of Arts and Sciences, Education

Cedar Bluff, VA

2017

## VOLUNTEER ACTIVITIES & LEADERSHIP

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### METROPOLITAN STATE UNIVERSITY OF DENVER

Denver, CO

Alumni Volunteer Speaker, CS Advisory Board, & DSML Advisory Board

May 2020 – Present

- **Board Governance:** Appointed to the **Computer Science (CS) and Data Science & Machine Learning (DSML) Advisory Boards** to guide curriculum alignment with industry demand, ABET standards, and emerging AI/Data practices
- **Professional Mentorship:** Delivered 10+ guest lectures and panels to CS students (Freshman through Senior Experience) on topics including **SQL/Database internals, technical interview preparation, and navigating life after graduation**
- **Industry Partnership:** Facilitated logistics for cross-organizational knowledge sharing, including a "Learning By Design" workshop partnership between MSU Denver faculty and enterprise women's resource groups
- **Community Outreach:** Featured in the Department of CS Newsletter for contributions to student outcomes and success strategies for overcoming socioeconomic obstacles in tech