

ROBERT METZKER

740.953.0802 • Columbus, OH • RMETZK@ME.COM

SR. DATA ARCHITECT • SR. ETL DEVELOPER

Strategic Planner • Analytics Designer • Solutions Architect • Lead Programmer

Scalable Architecture • High Performance Pipelines • Large Scale Migrations • Data Centralization

PROFESSIONAL EXPERIENCE

OHIO BWC, Columbus OH (remote)

Jan 2021 – Jun 2023

Data Architect / ETL Specialist– Data Warehouse

Large scale migration from on-premises databases to Snowflake cloud-based solution through the use of SQL, building and managing a dbt environment, developing jinja macros, Python scripts for extracting, standardizing and loading data. Through the combination of technology stacks, reduced the weekly batch to rebuild the entire data warehouse through CI/CD repositories to nightly.

- Oversaw the development and implementation of Python scripts for complete ETL processes, leading to an operational cost reduction of approximately \$1.2 million per year by sunseting 120TB of on-premises databases
- Engineered database solutions for Tableau dashboards, reducing decision-making time by approximately 67%, thus enabling faster, more informed decisions by leveraging real-time data analysis from structured and unstructured sources
- Developed cross-platform auditing procedures, reducing data discrepancies and operational errors by up to 80%
- Architected dynamic schema and table creation procedures in Snowflake using Kimball's data warehouse modeling approach, optimizing thousands of inefficient SQL scripts and significantly improving performance
- Streamlined the data warehouse rebuilding process to under 7 hours, enhancing data availability and timeliness by increasing the frequency from weekly to daily, an increase of 700% in efficiency
- Extracted Survey Monkey data through Python API calls and processed the data into multiple Snowflake tables for Tableau reporting
- Mentored team of ETL developers in Data table architecture, dbt, and Snowflake SQL through mob coding, and code review sessions over the course of three years
- Built Python scripts and dbt macros to expand the dbt Great Expectations library to do custom tests as defined in .yaml files and extracted from Excel requirements documents
- Helped migrate from db2, Oracle, Vertica and SQL Server to Snowflake and display security changes as well as changes in Dev from Production table structures through views layered on the Information Schema
- CI/CD practices using GitHub code repository and automated Python Deployments for merged code on a daily basis to ensure the latest code is deployed and could be toggled to the previous state in case of processing issues
- Developed dynamic incremental table design process through Python that created over 2200 incremental tables every night
- Developed dbt code base that would build the incremental finalized SCD2 from the output of the Python incremental tables and views

NiSource, Columbus OH

Apr 2019 – Dec 2019

Data Architect

Responsible for Data analysis to formulate business requirements and document strategy, and develop solutions and source to target mappings. Generated data profiling processes, fostered communication and teamwork to help document data lineage and clarify data quality checkpoints. Generated hundreds of data warehouse models using Data Vault methodology.

- Led the creation and presentation of data analysis documentation in Sprint Reviews, improving data understanding and decision-making capabilities by 70%
- Reduced potential audit risks and PII data exposure by 66% by Identify and resolving data anomalies in transactional tables while constructing Data Vault tables
- Spearheaded Data Vault transformation initiatives, improving the turnaround times for actionable reporting table design by over 60%
- Standardized documentation processes, mitigating about 70% of technical debt and establishing best practices across all domains, significantly enhancing the efficiency and productivity of data processes

Vice President - Solution Architect

Responsible for Data analysis to formulate business requirements and document strategy, and develop solutions and source to target mappings. Provided thought leadership in generating data profiling processes to help document data lineage and clarify data quality checkpoints.

- Designed and maintained marketing campaign tracking for over 100 million customers daily, contributing to a 20% redesign in campaigns, leading to increased efficiency and effectiveness
- Developed proof-of-concept applications for MDM, harmonizing data element definitions and KPI tracking across all domains
- Optimized various Kimball style data warehouse system designs, leading large-scale enterprise migrations and contributing to annual savings of 2 million dollars by transitioning from external to internal database systems
- Influenced database design and SQL coding best practices, enhancing support for Business Objects, Tableau, and other BI efforts, spearheading a Tableau Center of Excellence as a Tableau Visionary

Acxiom, Conway AR

1998 – 2003

Solutions Architect

SAP Business Objects, San Jose CA

1993 – 1998

Senior Technical Support

ADDITIONAL SKILLS

Skills: Writing • Training / Mentoring • SQL • T-SQL • PL/SQL • Meta Data Management (MDM) • Unix, Windows, OS, iOS scripting
Full Stack development • Data Engineer • Data Architect • Data Scientist • API Extracts

Programming Languages: Python • Java • Database Stored Procedures • VB Scripting • R • SAS

Business Intelligence: SAP Business Objects • Tableau • SAS • SSRS • SSAS • SSIS • Oracle Hyperion • OBIEE • Power BI • Microstrategy • Qlikview • Cognos

Performance Tuning: Snowflake • Oracle • DB2 • Sybase • Teradata • MS SQL Server • Access

Data modeling/ETL: dbt (database tools) • Ab Initio • Informatica • Erwin • Oracle Developer • TOAD • Experian Pandora
Experian Aperture Data Studio • Oracle Modeler • Filemaker

Database Skills: Schema Design • Normal/Denormalization • ERD Design • Partitioning • Constraints • Query Optimization • Transaction Management • Stored Procedures • View Creation • Replication • Recovery • Indexes • Data Warehousing • ETL Processing • ACID processing • OLAP Processing • OLTP Processing • Security/Permissions • Performance Tuning • Data Migration • Relational Database Management Systems • Kimball Database Design • NoSQL • Big Data Integration • Cloud Database Solutions • Data Vault Methodology