**ROBERT METZKER**

740.953.0802 • Columbus, OH • [RMETZK@ME.COM](mailto:RMETZK@ME.COM)

**SR. DATA ENGINEER • SR. DATA SPECIALIST**

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

**ETL Specialist / Data Architect** – 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.

* Lead developer and strategic partner to the ETL team to write Python scripts to do full extract, transform, load processes and validations between various systems allowing sunsetting of on-premises databases, saving millions per year
* Architected database solutions and software development for Tableau dashboards against various sources, both structured and unstructured data allowing faster decision making
* Created Snowflake stored procedures and various Python processes to audit cross-platform differences, and deltas between production and non-production environments reducing errors by up to 80 percent
* Developed Python procedures to dynamically create incremental schemas and tables for entire databases to capture and track minute changes within Snowflake and optimized thousands of inefficient Snowflake SQL scripts
* Automated daily CI/CD process to rebuild the data warehouse in under 7 hours, previously only possible weekly

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.

* Designed documentation and presented information in Sprint Reviews and business-centric presentations for business analysis and data analysis reviews through Jira managed tickets
* Provided critical information regarding data anomalies in transactional tables that both inaccurately reflected the data but also exposed potential PII data reducing audit risk
* Thought leader in the data transformation space which allowed faster turn-around times from business planning to actionable reporting table design by over 60 percent
* Standardized business review and documentation processes to eliminate technical debt and provide a foundation for best practices across all domains

JP Morgan Chase, Columbus OH Apr 2003 – Jun 2017

**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 Oracle and Teradata reporting warehouse environments that tracked marketing campaigns across home lending, education, finance and automotive domains against over 100 million customers on a daily basis
* Built proof of concept applications for MDM, enabling unified definition of elements and KPI tracking across all domains
* Optimized various database reporting systems and performed large-scale enterprise migrations between Oracle, DB2 and Teradata and migrating from third-party solutions to internally controlled database systems
* Converted from external, third-party databases to internally managed databases resulting in a two million dollar annual savings
* Thought-leader on database design and SQL coding/documentation best-practices and business models to support Business Objects and Tableau and other Business Intelligence (BI) efforts

Acxiom, Conway AR 1998 – 2003

**Solutions Architect**

Bridged the gap between business requirements and technical implementation by designing comprehensive solutions. Worked closely with stakeholders, including business leaders, project managers, and developers, to understand and analyze their needs and objectives. Create detailed architecture blueprints, considering factors such as scalability, security, performance, and cost-effectiveness.

* Using data engineer and data analysis skills to provide data insights to drive data-centric decisions and enhance overall business performance across multiple domains
* Managed complex data infrastructure, ETL processes, and data pipelines, to ensuring data accuracy, integrity, and availability
* Designed SAS, SQL, and Stored-procedures on multiple databases to efficiently extract, manipulate, and analyze data, enabling informed decision-making and enhancing overall data management processes
* Trained and mentored other developers in database and business intelligence best practices

SAP Business Objects, San Jose CA 1993 – 1998

**Senior Technical Support**

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**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

**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