ROBERT METZKER
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SENIOR DATA ARCHITECT / ETL DEVELOPER
Data Warehouse Architect • ETL Pipeline Developer • Cloud Migration Specialist

Seasoned Data Architect with over 28 years of expertise in designing, developing, and optimizing large-scale data solutions. Skilled in cloud migrations, ETL pipeline development, data modeling, database performance tuning, and leading technical teams with a proven track record of streamlining data processes, enhancing data analysis, and optimizing database performance. Known for enhancing data operations, reducing costs, and enabling faster access to business insights and committed to delivering impactful data strategies that drive business growth and efficiency.

PROFESSIONAL EXPERIENCE

OHIO BWC, Columbus OH (remote)   Jan 2021 – Jun 2023
Data Architect / ETL Specialist– Data Warehouse

Envisioned and managed a large-scale migration from on-premises databases to a Snowflake cloud-based solution via adept SQL execution. Constructed and supervised a dbt ecosystem, fashioning jinja macros and Python scripts for data extraction, normalization, and loading. By amalgamating technology stacks, compressed the weekly rebuild cycle of the entire data warehouse into a single nightly process.

- Optimized enterprise data warehouse reconstruction in Snowflake, truncating the frequency from weekly to nightly. Elevated data accessibility by a remarkable 700%.
- Devised agile schema blueprints in Snowflake, adopting Kimball methodologies. Rectified myriad inefficient SQL scripts, culminating in escalated warehouse efficacy.
- Fabricated Python-driven ETL workflows, orchestrating end-to-end automation of extraction, transformation, and loading processes. Achieved an annual operational cost reduction of $1.2M.
- Engineered Tableau dashboards, exploiting provisioned Snowflake data to expedite real-time analytics, thus empowering nimble decision-making.
- Pioneered Git-backed CI/CD paradigms for day-to-day code deployments, securing team alignment with the latest codebase.
- Formulated incremental Python and dbt-powered data pipelines, nightly constructing 2200+ analytical tables.
- Oversaw the seamless migration of the data warehouse from on-premises repositories to a cloud-powered Snowflake solution.
- Nurtured and coached ETL development squads in Snowflake, dbt, SQL, and optimal data modeling via immersive mentoring.

NiSource, Columbus OH   Apr 2019 – Dec 2019
Data Architect

Guided data analysis to frame business requisites, document strategies, and cultivate source-to-target mappings. Pioneered data profiling techniques, fostering cohesive communication and teamwork to crystallize data lineage and reinforce data quality checkpoints. Championed the creation of numerous data warehouse models through the lens of the Data Vault approach.

- Spearheaded the generation and presentation of data analysis documentation in Sprint Reviews, enriching data comprehension and decision-making capabilities by an impressive 70%.
- Slashed potential audit risks and curbed PII data vulnerability by a remarkable 66%, skillfully detecting and rectifying anomalies in transactional tables while crafting Data Vault tables.
- Instigated transformation endeavors rooted in Data Vault principles, expediting the formulation of actionable reporting table designs by over 60%.
- Regularized documentation methodologies, ameliorating approximately 70% of technical liabilities and instating best practices spanning all domains. This substantially enhanced the operational efficacy and productivity of data processes.

JP Morgan Chase, Columbus OH   Apr 2003 – Jun 2017
Vice President - Solution Architect

Guided data analysis to shape business requisites, frame strategies, and culminate in solutions while mapping source-to-target journeys for 14 years while building a first-class group of data analysts. Furnished thought leadership, prompting data profiling strategies that cemented data lineage and elucidated data quality checkpoints.
- Engineered and sustained marketing campaign tracking for 100 million daily customers, leading to a commendable 20% cutback in mandatory campaigns. This pivotal achievement heightened operational efficiency while curtailing marketing expenses.
- Devised prototypes for MDM applications, harmonizing data element definitions and KPI tracking across diverse domains.
- Increased employee training program by 62%; led team of 35 resources in the global delivery of 32 engagements.
- Guided transition of project management methodology from Waterfall to Agile; creating robust process improvement and planning utility.
- Led corporate enterprise in data collection and analysis of 10M+ accounts, driving alignment across Credit Risk teams.
- Reduced execution time of risk scoring process by 600%; collaborated with SAS/Teradata to enable additional analysis metrics, improving overall predictability and accuracy of credit risk forecasting models.
- Managed PMO projects valued at $45M; led activities for 40+ concurrent initiatives with zero under-performance.
- Orchestrated a cost-saving shift from external to internal database systems, concurrently refining Kimball-style data warehouse designs during sweeping enterprise migrations. This transition accrued savings amounting to 2 million dollars.
- Spearheaded a Tableau Center of Excellence as a recognized Tableau Visionary. Spearheaded database design enhancements and championed SQL coding best practices, thereby reinforcing support for Business Objects, Tableau, and other BI initiatives.

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

Database Skills:
- **Data Modeling**: ERD Design, Kimball Database Design, Data Vault Methodology, Schema Design, Normal/Denormalization
- **ETL and Data Integration**: dbt (database tools), Ab Initio, Informatica, Data Warehousing, ETL Processing, Big Data Integration
- **Database Management**: Partitioning, Constraints, Transaction Management, Stored Procedures, View Creation, Replication, Recovery, Indexes, OLAP Processing, OLTP Processing, ACID Processing, Security/Permissions, Performance Tuning, Data Migration
- **Tools and Software**: Erwin, Oracle Developer, TOAD, Experian Pandora, Experian Aperture Data Studio, Oracle Modeler, Filemaker
- **Database Types**: Relational Database Management Systems, NoSQL, Cloud Database Solutions