

GOAL:

Help companies make better decisions and improve their products, services, and processes by analyzing their data and providing previously unknown insights.

EXECUTIVE SUMMARY:

- 17+ years of full-time database experience with **Microsoft SQL Server** 2000 through 2019.
- 15+ years of **Business Intelligence** including traditional reporting, OLAP, **Power BI** and Tableau.
- 10+ years of **Data Engineering & Analytics**
- 5+ years of management experience as a team lead, supervisor and manager.
- One of the first **Chief Data Officers** in the world.
- Perform advanced data analysis on large data sets using a variety of tools and languages.
- Design, implement and maintain Business Intelligence solutions using the **Microsoft SQL Server** stack, including Reporting Services (SSRS), Analysis Services (SSAS) and Power BI.
- Extract, transform and load trillions of records using SQL Server Integration Services (SSIS).

ACHIEVEMENTS / EXPERIENCE:

Senior Data Engineer

10/2021 – present

Tegria (Healthcare Services) – rebranding of msm

- Set up single source of truth by integrating data from several external enterprise systems to establish a central data repository.
- Eliminated unnecessary labor by facilitating the automation of repetitive and time-consuming business process utilizing robotic process automation.

Senior Business Intelligence Developer

06/2014 – 09/2021

msm / Medical Specialties Managers (Healthcare Revenue Cycle Management)

- Gathered necessary data and set up dashboards to track service level targets for employees working remotely during Covid.
- Facilitated growth from \$100 million annually to over \$350 million by improving the efficiency and accuracy of internal processes through business process reengineering and automation.
- Increased revenue by importing millions of dollars in outstanding AR for collection.
- Improved performance by cutting daily ETL from over 300 million to under 100 million records as well as utilizing parallel processing.
- Avoided government penalties by building the data capture and reporting infrastructure to submit data to CMS as part of the MACRA / MIPS quality payment program.
- Sped up and simplified the loading and verification of external data sets from a multitude of sources using SQL Server Integration Services (SSIS).
- Ensured that all client data has been received and processed through redesigning and standardizing the quality assurance process.
- Increased compliance and accountability by adding database logging and auditing to all major objects and processes within the data warehouse.
- Reduced liability and increased performance by removing over 50 GB of redundant and obsolete data from all major database systems.
- Vastly improved the version control process by automatically checking in changes.
- Created and maintained the most popular reports accounting for 80% of usage.

Owner / Consultant

07/2013 – present

Thomas Mueller Consulting (part time side business)

- Provided key metrics used by my clients to make crucial business decisions. My analysis was instrumental in negotiating the contracts with their first few clients.
- Analyzed over one billion records with a transactional value of \$100 billion.

Implementation Supervisor / Lead Data Analyst

07/2011 – 06/2014

HMS (Healthcare Coordination of Benefits & Payment Integrity)

- Planned and implemented every major feature of HMS's FWA platform that generated most of the division's revenue.
- Increased processing performance through parallel execution of business rules.
- Kept the company compliant with government regulations by facilitating the transition from ICD-9 to ICD-10 as well as X12 4010 to X12 5010.
- Helped to create a new service offering by designing and implementing a rule engine for prescription (pharmacy) claims utilizing Microsoft SQL Server.
- Sped up the deployment of database code while improving reliability and consistency by synchronizing database objects across 60 servers.
- Contributed to every major data initiative, including an operational data store (ODS), master data management (MDM) and the integration of 3rd party sources.
- Visualized correlations utilizing market basket analysis and decision trees.
- Ensured the accuracy of our business logic by leading the quarterly and annual verification and update of millions of business rules.
- Increased the ROI by providing score cards and metrics for key initiatives.

Database Administration Manager

07/2010 – 06/2011

HMS (acquired AMG-SIU)

- Enabled company growth by increasing the flexibility & scalability of the database backend through switching from a multi-tenant design to a federated architecture.
- Drastically reduced on-call incidents by improving exception & error handling for all processes touching data in SQL Server.
- Offered enhanced functionality by adding time dependency to major tables.
- Managed a team of DBAs, Data Analysts and SQL Developers.

Chief Data Officer

09/2004 – 06/2010

AMG-SIU (Healthcare Fraud Waste & Abuse – got acquired by HMS)

- **Architected, programmed, and managed the SQL based rule engine that has been generating the majority of AMG-SIU's revenue for over a decade. This enabled AMG to grow from a startup into a firm with 100 employees.**
- Improved employee productivity by drastically increasing the uptime of important data related applications through a migration to SQL Server.
- Enabled upper management and clients to make better decisions by supplying them with more sophisticated and timely reports using Crystal Reports.
- Reduced human involvement and increased processing speed by automating the extraction, transformation and loading of data using SQL Server DTS and SSIS.
- Increased productivity by reducing the impact of reporting and ad-hoc querying by separating those functions from the OLTP side using real-time replication.
- Saved the company money by programming interfaces for industry standards such as HIPAA X12 in various languages, including PHP and TSQL.

EDUCATION:

Certificate in Data Mining from UC San Diego

09/2010 – 06/2011

Certificate in Business Intelligence and Data Warehousing from UC Irvine

09/2007 – 05/2008

Master of Science in Information Systems from Claremont University

01/2003 – 05/2004

Bachelor's in Digital Media & Computer Science from FH Furtwangen

10/1995 – 07/1999

ADDITIONAL INFORMATION:

- Organized 9 SQL Saturdays and numerous LEGO Mindstorms workshops.
- Presented at various events, including MIX, SQL Saturday, SoCal Code Camp and BarCamp.
- Taught and volunteered at Microsoft DigiGirlz and Technology Camp events.
- Participated in CIO roundtables, user groups and conferences.

KEY SKILLS:

Skill	Level		
	Intermediate	Advanced	Expert
Agile Software Development	✓		
Amazon RDS (Relational Database Service)	✓		
BIDS (Business Intelligence Development Studio)		✓	
Big Data	✓		
Business Intelligence			✓
Dashboard		✓	
Database			✓
Data Mining	✓		
Data Warehouse			✓
DAX (Data Analysis Expressions)	✓		
EDI (Electronic Data Interchange)			✓
ETL (Extract, Transform, Load)			✓
KPI (Key Performance Indicator)	✓		
Machine Learning	✓		
Microsoft Azure	✓		
NoSQL	✓		
OLAP (Online Analytical Processing)			✓
OLTP (Online Transaction Processing)			✓
Pivot Table		✓	
Power BI		✓	
Predictive Modeling	✓		
Refactoring		✓	
Reporting		✓	
Rule Engine			✓
RPA (Robotic Process Automation)	✓		
SCD (Slowly Changing Dimension)		✓	
Source Control		✓	
SQL (Structured Query Language)			✓
SQL Server 2014 / 2016 / 2017 / 2019 / Azure			✓
SSAS (SQL Server Analysis Services)		✓	
SSIS (SQL Server Integration Services)		✓	
SSMS (SQL Server Management Studio)			✓
SSRS (SQL Server Reporting Services)		✓	
SVN (Apache Subversion)		✓	
T-SQL (Transact Structured Query Language)			✓
Tableau	✓		
X12		✓	