

# Thomas Mueller

Anaheim, California  
(971) 275-0050  
thomas@tmspecial.com

---

## GOAL:

Apply my data management, data analysis and business intelligence skills & experience in a challenging full-time position.

## EXECUTIVE SUMMARY:

- 20+ years of IT experience including hardware and programming.
- 15+ years of full-time **database** experience with **Microsoft SQL Server** 2000 through 2017.
- 5+ years of management experience as a team lead, supervisor and manager.
- Designed, implemented and maintained **Business Intelligence** solutions using Microsoft SQL Server Reporting Services, Analysis Services and Power BI.
- Loaded, cleansed and analyzed several billion records (half a trillion dollars in claims) of **medical data**.
- Coded advanced data analysis of large medical data sets.
- Worked with stakeholders to identify **business needs** and roll out **solutions**, including **dashboards** for **key performance indicators**.
- Architected, programmed, customized and managed the **SQL based rule engine** that has been generating the majority of AMG-SIU's revenue for well over a decade.
- Strong **healthcare** background, including Medicare, Medicaid, healthcare billing, revenue cycle management and fraud, waste & abuse.

## ACHIEVEMENTS/EXPERIENCE:

### Senior Business Intelligence Developer at msm

06/2014 – present

- Created the majority of dashboards and graphical reports.
- Completed more client requests than any other employee on the team.
- Added logging and auditing to all major processes.
- Reduced the complexity and improved performance of core business logic.
- Designed and implemented an advanced reporting infrastructure.
- Reduced daily updates from over 300 million to under 100 million records.
- Lead special projects, including loading millions of dollars in outstanding AR.
- Created & maintained the most popular reports accounting for 80% of usage.
- Redesigned and standardized the quality assurance process.
- Drastically cut ETL time by utilizing parallel processing.
- Refactored the entire code base thereby drastically reducing the complexity.
- Increased performance by removing over 50 GB of redundant and obsolete data.
- Loaded and verified all external data sets from a multitude of sources.
- Converted inefficient data types to more appropriate ones.
- Simplified and sped up the daily ETL and reporting process.
- Transitioned the entire infrastructure from the old to a new data warehouse.
- Removed thousands of unused objects, including tables, procedures & reports.
- Vastly improved the version control process by automatically checking in changes.
- Evaluated business intelligence platforms.
- Documented major systems and processes.

### Owner / Consultant at Thomas Mueller Consulting

07/2013 – present

- Analyzed over 1 billion records with a transactional value of \$100 billion.
- Provided key metrics used by the client to make crucial business decisions.

## **Implementation Supervisor / Lead Data Analyst at HMS**

07/2011 – 06/2014

- Planned and implemented every major feature of HMS's FWA platform.
- Utilized market basket analysis and decision trees to visualize correlations.
- Provided score cards and key metrics for billing and ROI purposes.
- Drastically improved performance through parallel processing of business rules.
- Involved in corporate data management initiatives, including EDM and MDM.
- Reengineered business processes in order to improve efficiency and accuracy.
- Researched products and services, including in-memory databases like Hekaton.
- Synchronized all database code across 60 servers.
- Participated in the design of an operational data store (ODS).
- Designed and implemented a rule engine for prescription claims.
- Evaluated and integrated 3<sup>rd</sup> party data sources.
- Helped plan the transition from ICD-9 to ICD-10.
- Assisted in the design, development and integration of corporate systems.
- Added features to provide additional functionality to existing and new clients.
- Managed 10 million business rules for clients in 11 different states.
- Led the conversion from X12 4010 to X12 5010.

## **Database Administration Manager at HMS (acquired AMG-SIU)**

07/2010 – 06/2011

- Added time dependency to key components.
- Improved exception and error handling of all automated processes.
- Increased the flexibility and scalability of the database backend by switching from a multi-tenant design to a federated architecture.
- Managed a team of DBAs, Data Analysts and SQL Developers.

## **Chief Data Officer at AMG-SIU (got acquired by HMS)**

09/2004 – 06/2010

- Enabled upper management and clients to make better decisions by supplying them with advanced reports.
- Simplified updates and eliminated redundancy by normalizing existing database tables and adding referential integrity.
- Reduced the impact of reporting and ad-hoc querying by separating those functions from the OLTP side using real-time replication.
- Enabled exponential data growth by scaling and tuning the hardware and software as well as doing performance tuning and query optimization.
- Reduced human involvement and increased processing speed by automating the extraction, transformation and loading of data using SQL Server DTS and SSIS.
- Drastically improved the uptime of important data related applications.
- Increased data quality by using best practices and establishing procedures.
- Saved the company lots of money by programming interfaces for industry standards such as HIPAA X12.

## **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 in Digital Media & Computer Science from FH Furtwangen**

10/1995 – 07/1999

## **ADDITIONAL INFORMATION:**

- Founded of my own part-time consulting company in 2013.
- Organized 9 SQL Saturdays and various LEGO Mindstorms workshops.
- Presented at numerous events, including MIX, SQL Saturday, SoCal Code Camp and BarCamp.
- Participated in CIO roundtables, user groups and conferences.
- Volunteered at Microsoft DigiGirlz and Technology Camp events.
- Member of several associations including SSWUG and PASS.
- Was one of the first Chief Data Officers in the world.
- Willing to relocate and travel for business.

## KEY SKILLS/KNOWLEDGE:

Skill	Level		
	Intermediate	Advanced	Expert
Agile Software Development	✓		
Amazon RDS (Relational Database Service)	✓		
BIDS (Business Intelligence Development Studio)		✓	
Big Data	✓		
<b>Business Intelligence</b>			✓
Cube		✓	
Dashboard		✓	
<b>Database</b>			✓
Data Mining	✓		
<b>Data Warehouse</b>			✓
DAX (Data Analysis Expressions)	✓		
EDI (Electronic Data Interchange)			✓
ETL (Extract, Transform, Load)			✓
Excel			✓
Knowledge Management	✓		
KPI (Key Performance Indicator)	✓		
MDX (MultiDimensional eXpressions)	✓		
Medicare / Medicaid		✓	
NoSQL	✓		
OLAP (Online Analytical Processing)			✓
OLTP (Online Transaction Processing)		✓	
Pivot Table		✓	
Power BI		✓	
Predictive Modeling	✓		
Refactoring		✓	
Reporting		✓	
Rule Engine			✓
SCD (Slowly Changing Dimension)		✓	
Source Control		✓	
SQL (Structured Query Language)			✓
<b>SQL Server 2012 / 2014 / 2016 / 2017</b>			✓
<b>SSAS</b> (SQL Server Analysis Services)		✓	
<b>SSIS</b> (SQL Server Integration Services)		✓	
<b>SSMS</b> (SQL Server Management Studio)			✓
<b>SSRS</b> (SQL Server Reporting Services)		✓	
SVN (Apache Subversion)		✓	
T-SQL (Transact Structured Query Language)			✓
Tableau	✓		
X12		✓	