

## MICHAEL SHAWN LOCKWOOD

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## MY STORY

These job titles have lost their edge; in reality those lines blur. However, here's my story.

**Database architect with 20+ years as a T-SQL practitioner on SQL Server** with experience as a DBA, database architect and developer, including **15 years of SSIS** development—consistently focusing on performance, scalability, automation, and high-availability solutions. For the past 15 years, I've served as a **Director, Senior DBA and Database Developer**. I hold a **Bachelor's degree in Business Administration from DeVry University**, along with an **MCDBA certification since 2006**.

Once Walmart Health's acquisition of MeMD was final, I took the opportunity to invest in furthering my education and improving upon my technical skills through independent project work. One outcome is a real-world multi-billion row public data engineering pipeline focused on large-scale data ingestion, validation, and analytics across SQL Server and PostgreSQL, separately for a number of reasons. I use Python and PowerShell for converting parquet files into PSV format, then bulk import into relational tables. GitHub and VS Code provide version control and development workflow. Airflow is used to orchestrate repeatable pipelines, while Databricks supports distributed analytics. Results are published for visualization in Power BI, ensuring reproducibility and automation end-to-end.

I enjoy working in fast-paced environments and have many years of experience in healthcare and other transaction-heavy industries. While I am a firm believer in mastering core platforms and technologies rather than a generalist of many, I've also taken time to learn and experiment with a variety of others—**PostgreSQL, Python, PowerShell, JavaScript, D3.js, Hyper-V, VirtualBox, Docker, Power BI, ASP.NET Core, Identity Server, Node.js, Angular, CSS/Sass**, and even **MongoDB**. *This is more than a laundry list of tech. These explorations help me stay adaptable and give me perspective, many of which I use in my recurring development and deployment cycles as part of my professional roadmap.*

For additional background, project and code examples, visit my [GitHub Pages](#) and [LinkedIn](#).

## TECHNICAL SKILLSET

### Core Database Expertise

- **Transact-SQL (T-SQL)** – advanced development, performance optimization, and automation
- **SQL Server Integration Services (SSIS)** – ETL, data migration, and process automation
- **SQL Server Reporting Services (SSRS)** – reporting, analytics, and dashboard delivery
- **SQL Server Data Tools (SSDT)** in Visual Studio; daily development in **VS Code**

### High Availability & Disaster Recovery (HADR)

- Installed, configured, and managed **Always On Availability Groups, Windows Server Failover Clustering (WSFC)**, and **Log Shipping** in production

### Performance & Security

- Expertise in **query tuning, indexing strategies, and partitioning**
- Implemented **Extended Events, Resource Governor, SQL Trace, and SQL Audit** for performance and compliance

### Automation & Orchestration

- Designed **automated solutions** using T-SQL and SSIS; experience with **PowerShell** and **Python** scripting
- Built pipelines and workflow orchestration using **Airflow**; analytics with **Databricks**; visualization in **Power BI**

**Platforms**

- **SQL Server** (7.0a–2019, building 2022 lab), **PostgreSQL**, **Azure SQL**, SQL Server on **Azure VMs**, **GitHub**, **Docker**/Dev Containers, **Linux** (Debian/Ubuntu)

**Application & API Collaboration**

- Partnered with development teams on **C#**, and **ASP.NET Core** solutions
- Hands-on with **API design and testing** (REST, OData, Postman, Identity Server) to improve integration between application and database tiers

**PROFESSIONAL EXPERIENCE****Independent Project Work | Data Engineering & Database Development**

*2021 – Present*

- Designed and developed my own NYC Taxi Database Project, a **real-world data engineering pipeline** demonstrating expertise in **large-scale data ingestion, validation**, and **analytics** across **SQL Server** and **PostgreSQL**.
- Built automation scripts in **Python** and **PowerShell** to validate, convert, and bulk-load Parquet files into **SQL Server** and **PostgreSQL**, with source control and development in **GitHub** and **VS Code**. Current work includes building analysis queries and preparing for downstream orchestration in **Airflow**, analytics in **Databricks**, and visualization in **Power BI**.
- Applied senior-level skills in **T-SQL**, **SSIS**, and database architecture to ensure scalability, reproducibility, and performance optimization.
- Published technical documentation, blog articles, and source code on GitHub to demonstrate transparency, reproducibility, and modern development practices.

**Senior SQL Server Database Administrator / Developer**

*MeMD (Acquired by Walmart Health) — Jan 2018 – Jun 2021*

- Designed and implemented a secure, **automated file ingestion pipeline**, reducing processing time from 2 days to under 90 minutes.
- Led development of **SSIS workflows** and **T-SQL solutions** to move and transform large volumes of sensitive member data.
- Built SQL-based credential storage and audit mechanisms.
- Mentored developers on query design, indexing, and database hygiene.
- Managed both cloud and on-prem data systems.

**SQL Database Developer**

*ProKarma / InEight — Oct 2017 – Feb 2018*

- Built a proof-of-concept integrating **SQL Server Views**, **OData endpoints**, and **SSIS**.
- Worked with **DACPAC** files for database deployment and versioning.
- Developed an **ASP.NET MVC** demo app showcasing dynamic **SSRS** connectivity.

**SQL Database Developer**

*Cornerstone Advisors — Dec 2016 – Sep 2017*

- Delivered **T-SQL** development for flagship Cornerstone Benchmarks reports.
- Built 40+ **SSRS** reports and **JSON-based data** integration processes.
- Developed a web-based financial analytics tool using **ASP.NET Core MVC** and D3.js.

**Senior Database Administrator***FlipSwitch, Inc. — Jun 2015 – Oct 2016*

- Tuned queries, indexing strategies, and implemented **HA/DR** with **WSFC/AlwaysOn**.
- Built schema auditing and queue monitoring systems to detect anomalies in **T-SQL**.
- Replaced ETL jobs with real-time **Transactional Replication** to reduce load on OLTP systems.

**Senior Database Developer***Charles Schwab (via Randstad) — Dec 2014 – Jun 2015*

- Designed an automated auditing solution across 1,000+ SQL Server instances.
- Delivered **PowerShell + SSIS + T-SQL** workflows for compliance and access monitoring.

**Data Architect / Director of Information Infrastructure***OnePoint Patient Care — Sep 2008 – Jan 2014*

- Built full-stack data infrastructure for OnePointRx web application (**SQL Server 2012**).
- Designed scalable **SSRS** architecture for multi-tenant, page-scoped reporting.
- **Integrated HL7 clinical data** into the **SQL Server** environment to support pharmacy operations.
- **Managed a dev team**, delivered **BI** and data services solutions, and led **Agile initiatives**.

**Senior Database Administrator***Choice Hotels International, Phoenix, AZ | Jul 2007 – Sep 2008*

- Supported choiceADVANTAGE®, the core reservation system, and enhanced performance via stored procedure tuning, index optimization, and architectural improvements.
- Conceived and led development of AIMS (Automated Index Management Solution), a scalable index optimization utility using **T-SQL**, **SSIS**, and configurable control tables—automating index maintenance across all **SQL Server 2005 OLTP** servers.
- Delivered supporting **SSRS** reports and documentation; solution eliminated after-hours manual index management and improved system performance.
- Used **Redgate SQL Backup** for automated log shipping and **SQL Server backups**; employed **SQL Compare** for schema validation.

**CERTIFICATIONS**

- **MCDBA (Microsoft Certified Database Administrator) – Jan 2006**
- MCP: Web Apps in C# / Visual Studio – Dec 2005
- MCP: Windows 2000 Server Admin – Sep 2003

**EDUCATION**

- **B.S. Business Administration — DeVry University, Phoenix, AZ (2003)**
- Magna Cum Laude | **GPA: 3.78** | Sigma Beta Delta Honor Society

*Condensed résumé. For a more in-depth look at my experience and accomplishments, please see the full version of my résumé here: [github.com/michaelshawnlockwood/MyResume](https://github.com/michaelshawnlockwood/MyResume)*