

## MICHAEL SHAWN LOCKWOOD

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### EXECUTIVE SUMMARY

**Microsoft Certified Database Administrator (MCDBA) with 20+ years of hands-on SQL Server experience as both a Senior DBA and Senior Database Developer, specializing in performance tuning, automation, database development, and high-availability solutions.** For the past 15 years, I have served as the Senior DBA or sole DBA, while also designing and delivering complex data-tier solutions as a senior-level developer—consistently producing scalable, high-performing systems and resolving critical issues under pressure. I hold a **Bachelor's degree in Business Administration from DeVry University**, along with an **MCDBA certification**, underscoring my academic and professional foundation.

**To stay sharp during my recent career break, I designed 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.** The project involves development work in **Python, PowerShell, GitHub**, and **VS Code**, with downstream orchestration in **Airflow**, analytics in **Databricks**, and visualization through **Power BI**. It showcases my ongoing commitment to modern practices, reproducibility, and automation—while proving I remain fully hands-on at a **senior level** in both **database administration** and **development**.

**I bring deep and extensive expertise in T-SQL, SSIS, and data architecture, along with proven leadership as a former Director of Information Infrastructure, where I built and guided a small, high-performing team that consistently delivered business-critical systems using Agile methods.** While my primary focus is SQL Server, I am expanding into PostgreSQL and cloud-integrated workflows to meet evolving enterprise needs.

**I thrive in roles where adaptability, technical depth, and steady composure are critical—whether rescuing performance, building automation frameworks, or supporting compliance in healthcare, finance, and other transaction-heavy industries.**

For additional background and project examples, visit my [GitHub](#) 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)*