

COLIN DOUGLAS

Software Engineer



PROFILE

Software engineer and full-stack web developer with 12+ years across application development, databases, and infrastructure. Builds ecommerce experiences, improves performance and reliability, and leads practical AI initiatives from concept through adoption.

CONTACT

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TECHNICAL SKILLS

Development

C# / .NET, Vue.js, Optimizely, REST and GraphQL

Data and cloud

SQL Server, Azure, PowerShell, CI/CD, performance optimization

AI engineering

Agent orchestration, reusable AI skills, developer automation

OPEN SOURCE

SQLWatch

Built data collection behind Index Advisor.

dbatools

Contributed replication discovery and latency-measurement tools.

EXPERIENCE

Dot Foods, Mt. Sterling, Illinois

Software Engineer

May 2023 - Present

- + Reduced full product catalog loads from **80+ hours to 8 hours** through concurrency, parallel processing, and SQL optimization across the ecommerce integration pipeline.
- + Implemented fuzzy search; reported YTD no-result searches fell **29.3% YoY** after rollout. Modeled annual net margin: **~\$54K**.
- + Co-created and led **SuperCharge**, an AI Orchestration Platform that became a major Dot Foods IT initiative, driving architecture, infrastructure, implementation, and team adoption.
- + Originated and architected **AI Product Matching**'s foundation for GTIN and Dot Item matching, with separate modeled annual net-margin estimates of **~\$349K and ~\$42K**, respectively. GTIN reached **935 accounts** with an **11.6% lower no-result rate**.
- + Lead technical evaluation of replacement search platforms and build an AI-assisted evaluation tool for repeatable comparisons against a shared scoring rubric.
- + Optimized Azure integration processing, improving observed throughput **~2.5x** while limiting an estimated **\$2,000 per month** in unnecessary scaling cost exposure.
- + Managed multiple critical transportation applications' GraphQL/ODS migrations and designed regression-test planning for a major ecommerce .NET upgrade.

Database Administrator

Dec 2014 - May 2023

- + Managed **1,000+ SQL Server databases across ~100 instances**, automating administration with PowerShell and supporting performance tuning and troubleshooting.
- + Implemented high availability and disaster recovery through Failover Cluster Instances and log shipping, and introduced SQL Server Availability Groups.
- + Led migration to a dedicated SQL Server farm and restructured licensing to reduce costs and improve performance; mentored interns and colleagues.

Software Engineer

May 2014 - Dec 2014

- + Supported IBMi pricing applications and SQL-based item-maintenance solutions.

EDUCATION

Western Governors University | 2022

MBA, IT Management

Monmouth College | 2014

Bachelor of Computer Science

Certification: Microsoft Azure Fundamentals (AZ-900)