Summary

Experienced Senior Software Developer with a focus on legacy system modernization, full-stack development, and backend optimization using .NET and Entity Framework. Strong in troubleshooting and streamlining inefficient operations across application layers. Skilled in database administration, including backups, restores, indexing, and stored procedure tuning. Passionate about improving system efficiency and delivering scalable, high-performance solutions.

Key Achievements:

- **Developed and deployed an API-based data import system**, eliminating reliance on outdated CSV processing and improving data accuracy.

- **Completed project in 2 weeks instead of 1 month**, integrating APIs efficiently with a client's outsourced IT team.

- **Led migration of company phone system to cloud-based solutions (Nextiva and Zoom)**, cutting costs and improving accessibility.

- **Optimized import process** using bulk database inserts, significantly reducing processing time.

- **Automated and improved production deployment processes** through PowerShell scripts, enhancing deployment stability.

Text Message Survey System Development:

- **Sole developer of an end-to-end SMS survey system, built under extreme time constraints to prevent client churn.**

- **Designed a real-time SMS survey platform**, integrating automated opt-in, survey sending, response handling, and results feedback.

- **Built an iOS-style chat UI for survey interactions**, enhancing user experience and response rates.

- **Successfully deployed the system before a major client event**, ensuring business retention.

- **Implemented a last-minute request for follow-up SMS surveys in under 6 hours**, showcasing adaptability under pressure.

Performance Optimizations & Efficiency Improvements:

- **Refactored SQL queries by replacing sub-selects with LEFT JOINs**, significantly reducing query execution time and improving database performance.

- **Reduced query overhead by limiting column selection**, avoiding unnecessary data retrieval in stored procedures, which improved overall system response times.

- **Utilized SQL Server Execution Plans to identify bottlenecks**, implementing indexing strategies to optimize query performance.

- **Eliminated database connection leaks in legacy code**, ensuring proper disposal of SqlDataReaders to prevent resource exhaustion.

- **Identified and reported excessive stored procedure calls (1000+ per page load) using SQL Profiler**, though management did not prioritize fixing the inefficiency.

- **Improved large file import performance from hours to 30 minutes** by batching operations, reducing redundant queries, and leveraging in-memory data storage.

- **Explored multi-threading for further import optimizations**, but determined the current changes were sufficient for significantly improving internal employee workflow without introducing QA risks.

Technical Skills

• Languages: C#, VB, SQL, Bootstrap, AngularJS (for bug fixes), React (beginner)

• Frameworks & Tools: .NET (Entity Framework), Visual Studio, Visual Studio Code, SQL Server Management Studio, Performance Profiler, Solar Winds (Database Monitoring)

• Database Management: Stored procedures, index maintenance, backup/restores, query optimization

• Development Practices: Legacy system modernization, performance tuning, full-stack troubleshooting

• Additional Tools: Cursor (for code generation and troubleshooting)

Work Experience

Senior Software Developer

• Led modernization efforts, upgrading legacy applications to updated .NET frameworks, improving stability, maintainability, and database efficiency.

• Optimized system performance by refactoring inefficient queries and reducing overhead, improving responsiveness for internal users and clients.

• Developed and optimized stored procedures, indexes, and database maintenance routines.

• Diagnosed and resolved critical system bottlenecks using Visual Studio's Performance Profiler, improving processing efficiency.

• Implemented backend logic and APIs for enterprise applications creating real time processing and overriding outdated overnight batch jobs.

• Partnered with teams across development, QA, and business analysts to ensure application stability.

Junior Software Developer

- Updated **Windows Services** using C# to parse Excel files and update SQL Server databases.

- Created and enhanced **SSRS reports**, improving customer reporting accuracy by optimizing stored procedures.

- Handled **critical customer issues**, troubleshooting and resolving technical challenges impacting user experience.

- Worked extensively with **MS SQL Server**, including updating stored procedures for evolving business logic, creating data retrieval procedures, and debugging stored procedures and triggers.

- Provided **Level 3 technical support** for customers using various products, troubleshooting and resolving complex issues.

Associate Software Developer

- Developed a **C# financial application** that generated potential user data based on given criteria.

- Created a **C# console application** that connected to a client's database, downloaded files, parsed SQL records, and generated CSV documents.

- Built **.NET .dll utilities** for image DPI conversion based on user input.

- Developed a **custom .MSI installer for a C# Service using WiX Toolset** to streamline deployment.

Education

Bachelor's Degree in Computer Science

Projects & Personal Interests

• Spartan Races: Dedicated to personal fitness, using exercise to maintain mental clarity.

• Chess: Enjoys strategic thinking and problem-solving through chess, slowly climbing the ranks

• Cooking: Passionate about experimenting with new recipes and making home made pizza in the brick pizza oven

• Socializing: Values meaningful connections with friends and family.