

SHAWN RYE

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Professional Profile

Dynamic, solution-focused Senior C# .NET Engineer and Solutions Architect with 13+ years of expertise specializing in modern cloud-native migrations, legacy system optimization, and high-performance full-stack ecosystems. Proven track record of spearheading enterprise-grade applications utilizing cross-platform .NET Core, Blazor (Server/WASM), distributed microservices, and robust SQL management systems. Expert in accelerating modern workflows, cloud conversions, and **native AI automation setups leveraging Microsoft.Extensions.AI abstractions** alongside development assistants like GitHub Copilot and Claude to engineer scalable, intelligent backend systems.

Technical Expertise

- **Backend Architecture:** C#, .NET Core (6-10), .NET Framework 3.5/4.8, Microservices, SOA, Dependency Injection, Design Patterns
- **Web & Frontend:** Blazor Server, Blazor WASM, Razor Pages, ASP.NET MVC 4/5, Web Forms, Angular 8, AngularJS, TypeScript, jQuery, Bootstrap CSS
- **Cloud & DevOps:** Azure App Services, Azure API Management, Azure SignalR, Entra ID (Azure AD), Azure DevOps, CI/CD Pipelines, GitHub, Jenkins, SonarQube, Docker Linux Containers
- **Data & Integration:** T-SQL Database Management, SQL Server, MS SQL, PostgreSQL, MySQL, Dataverse (XrmTools), EF Core, Dapper ORM, Stored Procedures, Functions, Triggers, Views, RabbitMQ, Azure Service Bus
- **Reporting & Tools:** Power BI, Power Apps, SSRS, Bold Reports API, Telerik Controls, Kendo UI, Telerik Reporting, EPPlus, PnP Core
- **AI & Automation:** Microsoft.Extensions.AI, GitHub Copilot, Claude (Opus/Sonnet), Gemini AI, MS Visual Studio 2022 & 2026

Professional Experience

Principal .NET Consultant & Solutions Architect Contracting | 2019 — Present

Bowdark (Energy Sector Client) — Senior ASP.NET C# Consultant — Blazor 05/2026 — Present

- Architect and engineer modern Blazor Server front-end components tailored for heavy enterprise operations in the energy sector.
- Design and deploy enterprise-grade native AI automation features utilizing **Microsoft.Extensions.AI** abstractions to integrate secure chat capabilities, dynamic tool calling (function execution), and vector embedding generation.
- Implement end-to-end integration between Dataverse, SQL Server architectures, and custom platforms using XrmTools.
- Coordinate directly with infrastructure units to configure secure Azure AD access controls and file transfers into Azure Blob containers.
- Leverage OOP patterns and modern .NET 10 structures to establish clean, modular solution sets.
- Establish robust test suites across new modules implementing comprehensive Unit Testing using Xunit, Bunit, Moq, and Fake it Easy.

State of Wisconsin DWD — Senior C# .NET Modernization Specialist 01/2026 — 05/2026

- Led programmatic migration and code modernization transforming legacy web forms from VB.NET over to cross-platform Blazor Server .NET Core architectures.

- Collaborated closely with WCF infrastructure teams to optimize backend data services, database schemas, and shared interface design models.
- Engineered reusable custom interface controls inside Blazor Server to maintain compliance with stringent design standards.
- Managed source control branches, repository setups, and deployment automation utilizing GitHub workflows.
- Validated modernization layers against legacy systems by introducing rigorous Unit Testing using Xunit, Bunit, Moq, and Fake it Easy.

AMG Financial — Senior Software Engineer - Blazor

04/2025 — 12/2025

- Successfully modernized legacy .NET 4.8 legacy desktop software applications into a scalable .NET 10 Core Blazor WASM application.
- Integrated secure modern authentication protocols including Azure AD / Entra ID for role-based organizational access controls.
- Configured and consumed structured enterprise data streams over OData protocols processed through Azure API Management gateways.
- Accelerated delivery workflows by integrating custom Telerik components, responsive Bootstrap layers, and GitHub deployment pipelines.
- Guaranteed cross-platform reliability and core UI performance by scripting end-to-end Unit Testing using Xunit, Bunit, and Moq.

Comcast Corporation — Senior Lead Software Developer III

08/2024 — 03/2025

- Headed modern migration tasks translating .NET Framework 4.8 Web Forms into modern .NET 8/9 Core infrastructure layouts.
- Engineered scalable Web API endpoints and robust database layers leveraging Entity Framework Core (EF Core) and high-speed Dapper ORM mappings.
- Safely combined developer accelerators including GitHub Copilot and Claude Sonnet/Opus to automate redundant code logic and build fast, reliable system testing suites.
- Maintained asynchronous, high-frequency browser state updates by implementing real-time communications through Azure SignalR services.

Symbolic Robotics — Senior C# Engineering Consultant

04/2024 — 08/2024

- Partnered with core process controls groups to enhance backend automated scripting engines and telemetry reporting models for specialized robotics teams.
- Created specialized utility engines using EPPlus to parse complex application data sets dynamically into custom Excel reporting layers.
- Designed and implemented high-volume background tasks running on Windows Services to securely pull data from SharePoint using PnP Core API architectures, populating production MySQL and PostgreSQL database servers.

Choctaw Nation Tribal Government — Senior .NET Core Developer

02/2023 — 02/2024

- Engineered custom internal auditing platforms and juvenile case management workflows using high-performance ASP.NET Core 6 Blazor layouts.
- Built over 30 micro-targeted Web APIs and optimized heavy data operations using high-performance Dapper ORM mappings against stored procedures.
- Configured development environments inside Azure DevOps, managing continuous deployment scripts, hosting settings, and unified Azure AD controls.

Texican Inc. — Senior Lead / Solutions Architect

05/2021 — 12/2022

- Architected and deployed a multi-tenant cloud SaaS healthcare platform running on Azure infrastructure to handle complex medical revenue management processes.
- Designed performant full-stack solutions using .NET 6, Blazor Server, SQL Server databases, Dapper ORM, and background processing models.
- Enforced absolute HIPAA safety protocols across data logging layers by designing and deploying targeted Serilog tracking pipelines.
- Introduced formal Agile development sprints, managed multi-tier deployments with Docker Linux containers, and facilitated reliable microservice messaging via RabbitMQ patterns.

Huron Consulting Group — Senior .NET Consultant

10/2020 — 05/2021

- Developed structured medical data archiving applications using Blazor Server configurations to streamline data visibility tools for partner hospitals.
- Successfully mapped and executed high-volume SQL ETL procedures to convert legacy medical system architectures (Meditech, Sorian, Epic) into unified target schemas.
- Hosted modern application deployments cleanly across local IIS setups and cloud-based Amazon Elastic Beanstalk configurations.

Alex and Ani — Senior .NET Integration Engineer

03/2020 — 09/2020

- Automated continuous business reporting pipelines and transactional workflows by programming custom Visual Cron automated jobs and complex ETL processing steps.
- Programmed messaging systems utilizing Azure Service Bus SDK architectures to ensure asynchronous delivery across high-throughput company data layers.

Altus Systems — Senior Systems Developer

08/2019 — 02/2020

- Designed and delivered robust, enterprise-grade architectures via full-stack implementations across C# MVC, WCF services, Web API connections, Angular 8 and JQuery front end.
- Worked with design team on new functionality with security.net to add security to various sites.

Engage2Excel Inc. — Senior Full Stack .NET Developer

11/2014 — 08/2019

- Mentored and guided local engineering squads to deliver high-quality, full-stack software products using clean application standards.
- Engineered scalable web systems utilizing C# MVC 4, WCF data connections, RESTful Web APIs, and high-performance ADO.NET and T-SQL database operations.
- Built tailored web frontends and high-profile company platforms for enterprise customers including corporate partners like UPS, Six Flags, and Ford Regional Health.
- Front end development including the use of JQuery and Angular.
- Optimized heavy production database logic by rewriting legacy SQL stored procedures, eliminating execution deadlocks, and optimizing execution plans.

Professional Credentials & Education

- **MCTS Microsoft Certified Technology Specialist** — .NET Framework 3.5 ASP.NET (Exams 70-562, 70-536) | New Horizons
- **MCTS Microsoft Certified Technology Specialist** — HTML5, JavaScript, and CSS3 (Exam 70-480) | New Horizons
- **MCSE Core Courses** — Enterprise Systems Architecture | Hesser College

• **CompTIA Certifications** — A+ | Network+ | Microsmart Technical