

Ryan Haworth

Senior Software Engineer | C#/.NET Specialist | Azure Services Specialist | Healthcare Data Services Specialist

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Professional Summary

Results-driven Senior Software Engineer with 19+ years of progressive experience delivering enterprise-scale solutions across healthcare, engineering, and mixed reality domains. Expertise in Azure cloud architecture, ETL pipelines, secure environments (ITAR/CUI), and full-stack development. Proven track record of optimizing development workflows, implementing critical security initiatives, and architecting high-performance data solutions that drive business outcomes.

Core Competencies

Technical Skills: C#/.NET (Framework & Core), Azure Services, PowerShell, MSSQL, KQL,

TypeScript/JavaScript, React/Angular, Data Factories, SSIS, Synapse Analytics

Cloud & DevOps: Azure DevOps, 1ES Engineering Services, Artifactory, Packer, YAML, CI/CD Pipelines

Healthcare Technologies: Claims ETL, FHIR, HL7

Security & Compliance: ITAR, CUI

Leadership: Technical Team Lead, Scrum Master (alternate), Offshore Team Management

Professional Experience

Senior Software Engineer for Microsoft Mixed Reality (2022-2025)

Q-Analyst (5/2022-4/2023) | AMS DataSerfs (4/2023-3/2024) | Actalent (3/2024 – 4/2025) | Remote

Led development and maintenance of custom Azure services in highly secure environments containing ITAR and CUI information, focusing on developer productivity and infrastructure security.

Technologies: React, Angular, JavaScript, TypeScript, .NET Core, C#, Entity Framework, MSSQL, KQL, PowerShell, Packer, Azure Cloud Services, Azure DevOps, Artifactory

Key Accomplishments:

- **Security Transformation:** Spearheaded critical Secure First Initiative (SFI) implementation across multiple repositories, remediating vulnerabilities, updating .NET frameworks, and correcting dependency issues while maintaining strict deadlines
- **Resource Optimization:** Engineered and maintained a custom agent scaling solution that dynamically provisioned Azure DevOps pool agents on demand, reducing resource overhead while improving developer productivity
- **Infrastructure Modernization:** Established and maintained 1ES Images and 1ES Hosted Pools across multiple Mixed Reality projects, customizing developer environments to enhance performance while ensuring security compliance

- **DevOps Excellence:** Managed multiple custom Azure DevOps instances, including permission structures, pipeline configurations, and repository governance aligned with Microsoft and Mixed Reality policies

SENIOR SOFTWARE ENGINEER - HEALTHCARE ANALYTICS

Conifer Health Solutions (2014 - 2022) | Remote

Led end-to-end development across multiple healthcare Population Health and Revenue Cycle Management platforms, specializing in backend systems and ETL operations while contributing across the full application stack.

Technologies: Angular/AngularJS, TypeScript/JavaScript, Material Design, Bootstrap, .NET Framework/.NET Core, C#, Entity Framework, Dapper, MSSQL, SQL Server Parallel Data Warehouse, SSIS, SSRS, Azure Data Factories, Azure Synapse Analytics

Key Accomplishments:

- **Performance Optimization:** Migrated Evidence Based Medicine and Risk Stratification OLAP processing from SQL Server to multi-threaded Synapse Analytics, achieving up to 70% reduction in processing time
- **Architecture Transformation:** Re-architected in-house grouping process in Synapse Analytics for optimized workload management and custom resource class utilization
- **Healthcare Integration:** Implemented end-to-end EHR integration with Athena Health using both HL7 and FHIR standards
- **Leadership:** Served as alternate Scrum Master and Development Team Manager, including offshore team leadership during critical development cycles

SENIOR SOFTWARE ENGINEER

POS Solutions LLC (2008 - 2014) | Glen Burnie, MD

Led development efforts for native Windows point-of-sale applications and multi-store reporting websites, implementing performance optimizations and data aggregation solutions.

Technologies: WinForms, Windows CE, Windows Mobile, ASP.NET, .NET Framework, C#, Entity Framework, MSSQL, SQL Server, SSIS

Key Accomplishments:

- **Performance Engineering:** Migrated inline SQL commands to stored procedures, implementing strategic indexing that significantly improved application responsiveness
- **Multi-tenant Solutions:** Designed and implemented custom websites enabling multi-store customers to generate reports on aggregated data across locations

SAS PROGRAMMER / RESEARCH ASSISTANT

University of Maryland Medical System, Dept. of Neurology (1999-2001) | Baltimore, MD

Developed custom data solutions for The Maryland Stroke Center, including clinical data entry systems and statistical analysis tools.

Technologies: MS Access, VB, VB Script, SAS Statistical Analysis Software

Key Achievements:

- **Clinical Database:** Designed and implemented a relational database solution using MS Access and VBA for clinicians to use during patient visits
- **Research Support:** Performed statistical analysis for neurological research using SAS Statistical Analysis Software

Education

Programming/Analysis Degree (2012)

Anne Arundel Community College | Arnold, MD

- Assoc. degree in Software Engineering
- C#, VB .Net Proficiency