Tyler Rhodes

Senior Software Engineer

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Summary

Senior software engineer building enterprise applications across marketing, elections, and healthcare. Hands-on experience with C# and .NET, AWS and Azure, data modeling, and full-stack development. Takes software from requirements and architecture through deployment and production support, with a record of reducing vendor costs and modernizing critical systems.

Technical Skills

Languages and frameworks: C#, ASP.NET Core and MVC, Clojure, Python, JavaScript, TypeScript, Angular, React, C/C++

Cloud and data: AWS Lambda, Fargate, S3, SQS, CloudWatch; Azure App Service and Blob Storage; SQL Server, Oracle, Redis, MongoDB

Engineering and tools: Docker, CI/CD, microservices, web security, HL7, CQRS, Visual Studio, PowerShell, Bash, Codex, AWS Kiro

Professional Experience

Charter Communications (Spectrum) | Stamford, CT

Manager, Business Solutions — Apr 2024 - Nov 2026

Contract Software Developer — Jan 2024 - Apr 2024

- Built an internal application to replace a third-party telemarketing data-processing system, saving more than $500,000 annually.
- Developed, tested, and shipped .NET Core marketing features, including integrated application interfaces and support for advanced list generation.
- Designed a reusable group-management architecture and interface that lets users share data within groups across application workflows.
- Partnered with stakeholders to refine requirements and troubleshoot issues; provided production support for a critical internal marketing application suite.

New York Power Authority | White Plains, NY

Full Stack Developer (Contract) — Sep 2022 - Jul 2023

- Designed the data model and built a C#/Angular position-tracking application with input from business analysts, developers, and users; deployed to Azure App Service.
- Migrated a public-facing RFP system from legacy ASP to ASP.NET Core and Angular for Azure deployment.
- Modernized legacy .NET applications to .NET Core to improve maintainability.

ThorTech Solutions | Remote

Cloud Software Engineer — Feb 2021 - Aug 2022

- Developed and supported an AWS-based Election Analysis System for statistical projections, exit polls, vote aggregation, and live reporting to major news networks.
- Automated manual initialization with AWS Fargate, Docker, Clojure, .NET Core, and React, reducing setup effort and the risk of operational errors.
- Contributed to vote-processing rearchitecture using AWS Lambda, Fargate, Redis, and SQL, spanning architecture, implementation, QA, and deployment.
- Operated election simulations and live events; monitored with Splunk and CloudWatch, troubleshot issues, and kept stakeholders informed.

Subway | Milford, CT
Software Engineer II — Jul 2019 - Nov 2020

- Led migration of document storage from SQL Server to Azure Blob Storage, coordinating with QA and DevOps through production release.
- Implemented secure token signatures for third-party video playback; identified and fixed access-control, CSRF, and XSS vulnerabilities with engineering and product stakeholders.
- Replaced a third-party SharePoint integration slated for obsolescence with a custom solution, removing a dependency that complicated future Sitecore upgrades.

Bernoulli Enterprise Inc. (Capsule Technologies) | Milford, CT
Software Engineer — Oct 2017 - Jul 2019

- Built a .NET service to convert medical telemetry to PDF and transmit it to EMR systems via HL7; led production integration and supported the live deployment.
- Developed reporting and analysis modules for patient monitoring data; resolved concurrency and resource issues using Visual Studio and Windows Sysinternals.
- Led development, testing, and customer deployment of a TAP-protocol paging interface with internal and external partners.

FUJIFILM Medical Systems USA Inc. | Stamford, CT
Systems Integration Engineer / Software Engineer — Nov 2013 - Oct 2017

- Co-designed and implemented a product metrics system for medical imaging software using a C++ IIS native module, ASP Web API, and JavaScript test harness.
- Extended a C# middleware database layer using CQRS and Oracle PL/SQL; coordinated feature delivery and field issue resolution across standards, database, and solutions teams.

Earlier Experience

Open Doors Technology | Network Consultant | Jun 2010 - Nov 2013
Advised SMB customer leaders and delivered networking, Active Directory, and IT operations support.

Global Computer Systems | Systems Integrator | Apr 2007 - Feb 2010; 2003 - 2004
Led client IT projects and deployments; supported the design, maintenance, and documentation of networks.

Education

Southern New Hampshire University: BA in Mathematics in progress

Additional undergraduate coursework: Computer Science and IT at Marist, Georgia Military College, and Empire State College

Selected Publications

Writing a Blog Engine in ASP.NET Core. CodeProject Best Web Dev Article, March 2017; featured on ASP.NET Community Standup.

Clojure: Sequences, Part 1. tylerrhodes.net