

Garry Smith

Principal Software Engineer | Enterprise Modernization & Distributed Systems |
Programming since 1998

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Principal-level software engineer with 25+ years of experience designing and delivering enterprise and regulated systems. Independent consultant since 2001, specializing in modernization initiatives, distributed systems architecture, and cloud migration across AWS and Azure environments. Known for leading proof-of-concept efforts, de-risking legacy platform transitions, and establishing repeatable CI/CD and infrastructure automation practices.

INDEPENDENT CONSULTANT

2001 – Present · Enterprise modernization, integration, cloud migration, distributed systems

GNBS — Enterprise Modernization & ERP Migration 2023 – Present

- Architected and delivered knowledge base and sales automation platform; migrated SharePoint and Salesforce data into Azure-based architecture.
- Designed event-driven integrations (NATS) and scalable search pipelines (OpenSearch, PostgreSQL).
- Led SAP to Oracle NetSuite ERP migration following acquisition, ensuring data integrity and operational continuity.
- Established CI/CD automation and infrastructure-as-code practices using Docker, Kubernetes, Terraform, and AWS/EKS.

Federal Reserve Bank of Minneapolis — Governance Systems 2024 – 2025

- Designed and delivered governance applications aligned with regulatory requirements and audit controls.
- Developed production APIs and services using TypeScript, Python, and PostgreSQL.
- Improved infrastructure automation and deployment reliability using Terraform and AWS tooling.

C.H. Robinson — Logistics & Distributed Systems 2018 – 2020

- Designed microservices-based warehouse receiving and shipping systems using .NET Core, SQL Server, and RabbitMQ.
- Built simulation tooling and mobile status applications using React and C# to accelerate integration testing.
- Supported evaluation and integration of dimensional analysis hardware platforms.

Blackbaud — Platform Modernization (Contract)

May 2015 – May 2016 · Eden Prairie, MN

- Designed and built proof-of-concept replacement for legacy Silverlight application using ReactJS.
- Developed API modernization prototype replacing CSLA-based system using C# and MS SQL Server.
- Demonstrated and implemented best-practice CI/CD pipelines in Azure DevOps, improving and modernizing existing Jenkins workflows.

Thomson Reuters — Data & Identity Systems

2011 – 2014

- Built OAuth-based SSO and data exchange platform for university integrations.
- Developed data enrichment APIs combining public and commercial data sources.
- Contributed to enterprise AngularJS front-end and Java/C# backend systems.

ADDITIONAL ENGAGEMENTS & INDEPENDENT PROJECTS

- **ProAg (Insurance):** Led React modernization and implemented CI/CD with Terraform and Azure DevOps.
- **Life Time Inc.:** Built Vue-based platform with Azure backend services and established CI/CD pipelines.
- **Smarte Carte:** Developed hardware-integrated POS and locker systems using C++ and C#.
- **School Technology Associates:** Migrated legacy platform to Node.js and PostgreSQL; built deployment tooling.
- **Independent R&D:** Develop educational life science software and interactive games during consulting intervals.

EDUCATION

Texas Tech University — Bachelor of Science, Computer Science (Honors)

TECHNICAL CAPABILITIES

Languages: C#, TypeScript/JavaScript, Python, Java

Frontend: React, Vue

Backend: .NET / ASP.NET Core, Node.js, microservices

Cloud & IaC: AWS, Azure, Terraform, Docker, Kubernetes

Data & Messaging: PostgreSQL, SQL Server, Oracle, RabbitMQ, Kafka, NATS

Practices: CI/CD automation, infrastructure as code, Agile/Scrum