

Scott Gerold

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SUMMARY

I am a Senior Software Engineer who has experience designing, developing, and deploying scalable enterprise applications. Proven success delivering full-stack solutions in diverse industries, including finance, healthcare, manufacturing, and retail while consulting Fortune 500 clients and startups alike. Expertise in Software Architecture, DevOps, Cloud Modernization and Full Stack Software Development. I am adept at leading teams, mentoring junior developers, and working in Agile environments.

TECHNICAL SKILLS

Development

- Microservices
- Containers
- Docker
- Full Stack
- REST API(s)
- ASP.NET Core, ASP, MVC
- Entity Framework
- Kd8s, ArgoCD

Languages/Frameworks

- C#, VB.Net
- JavaScript
- TypeScript
- JQuery
- HTML/CSS
- Bootstrap
- TSQL

Cloud

- Azure, AWS
- Cloud Native Development
- IaaS, PaaS, SaaS
- Kubernetes
- Event Grid, Event Hub, Service Bus
- Synapse, Data Factory
- API Management
- Functions, Logic Apps

Data

- MS SQL Server
- MySQL
- PostgreSQL
- Dapper
- SQLite
- Mongo, Cosmos
- Entity Framework
- NHibernate

DevOps

- Azure DevOps
- Git
- CI/CD Pipelines
- Terraform
- Bicep
- CLI
- Powershell, Bash
- ArgoCD

Other

- Agile, Scrum, Kanban
- SAFE, LESS
- Swagger
- Postman
- NUnit
- XUnit
- TDD

PROJECT EXPERIENCE

Senior Software Engineer - Jan. 2025 – Current

Future Systems Consulting & Services, Inc (Owner)

OptumServe

- Modernization of legacy systems by architecting secure, scalable cloud solutions within Azure to meet strict FedRAMP compliance requirements.
- Designed and implemented microservices architectures leveraging Kubernetes, CDK8, and containerization to improve system resilience and deployment velocity.
- Optimized complex data management pipelines to increase processing efficiency, reduce latency, and strengthen data integrity across mission critical applications.

- We conducted policy research and technical analysis to translate federal compliance standards into actionable engineering strategies that improved security posture and operational alignment.
- Developed workflow automation solutions using Terraform and cloud native tooling to streamline provisioning, reduce manual overhead, and enhance repeatability.
- Improved cross platform data interoperability through API design, schema standardization, and cloud native integration patterns.
- Collaborated with cross functional teams to design evidence based modernization strategies that strengthened agency service delivery and long term digital transformation outcomes.
- Identified and executed modernization opportunities that enhanced system performance, reduced technical debt, and supported scalable growth across federal programs.
- Championed cloud governance best practices to ensure continuous compliance, audit readiness, and alignment with evolving federal security frameworks.

Snap-On Tools

- Modernized legacy ASP.NET Core and .NET Framework applications by migrating from on-premises infrastructure to cloud-native Azure services, leveraging App Services, Azure SQL, and CI/CD pipelines to improve scalability, reliability, and deployment speed.
- Created CI/CD pipelines in Azure DevOps that automated the deployment of software as well as provisioning infrastructure environments.
- Build Infrastructure as Code (IaC) using Terraform to provision and manage Azure resources, ensuring consistency and scalability across the cloud infrastructure.
- Participated in code reviews and created enterprise level documentation around all IAC and CI/CD processes.
- Developed a wide range of PowerShell and Azure CLI scripts to automate deployment and configuration tasks, streamlining operational workflows.

Software Architect/Engineer - July 2022 – Jan. 2025

Star Seven Six, Ltd.

Auditor, State of Ohio

- Build backend REST API(s) for accounting and auditing system utilizing C#, .Net Core, PostgreSQL, MySQL, and Entity Framework.
- Developed dynamic, single-page web applications (SPAs) using Angular (16-18), TypeScript, and CSS. Integrated RESTful APIs and ensured seamless data binding using Angular HTTP Client and Observables.
- Design and build Test Framework for unit testing REST APIs, Services, Controllers, and Repositories. Used NUNIT, SQLite, MOQ, and Postman (approximately 1200 tests)
- Implemented SQLite and backend data source used in all Unit Testing.
- Participated in code reviews and mentoring juniors establishing onboarding documentation and code review protocols.

Fillmore Capital Partners LLC.

- Designed Datawarehouse infrastructure in Microsoft Azure consisting of Azure Storage, Azure Synapse, Azure Key Vault, Azure SQL, SQL Managed Instance, and Power BI
- Created IAC using Terraform to construct and deploy components of Datawarehouse in Azure.
- Managed and built Azure DevOps Repos and Pipelines for support Datawarehouse.

- Configured and managed the Azure Synapse environment used to process data transformations between 3rd party data sources.

Cloud Modernization Architect - Nov. 2020 – July 2022

Cognizant Microsoft Business Group

Microsoft

- Solution Architect conducting and leading Microsoft's Application Innovation Program engagements for mid-sized companies > 20 million customers. This included solution development, architecture, sales support.
- Led team of engineers to analyze and investigate modernization and/or migration strategies for specified customers.
- Met with C-Level executives, Key Stakeholders, Architecture and Development teams to analyze and gain information of existing systems
- Created detail analysis including Comprehensive Cloud Assessment, Evaluate Readiness for Migration to Cloud, Technical Evaluation, Cost Analysis, and Staffing Considerations.
- Presented findings and proposal to move forward to C-level executive and their architecture teams.
- Created POC prototypes in Cloud (i.e. Kubernetes, App Services, Functions) to help customers understand the ROI of modernizing to a cloud environment.

Saks Fifth Avenue

- Conducted planning and analysis for migrations of AWS to the Azure cloud platform.
- Managed and advised onshore and offshore teams while leading the development of a product roadmap from incubation, design, development, porting, to product maintenance.
- Provided end-to-end design, validation, alignment of requirements into a technical design for modernizing application workloads.
- Constructed and presented proof-of-concepts to both architecture and dev teams in support of migration effort.

TriZetto Health

- Enterprise effort to migrate existing architecture from on-premises to the Azure Cloud.
- Designed CI/CD pipelines and building Terraform scripts to build infrastructure and deploy applications and services.
- Enterprise services include many Azure IaaS and PaaS services, API Management, Azure Functions, Azure Logic Apps, App Services, SQL database both managed and unmanaged, and both Azure Event Grid and Service Bus services.

Software Engineering Group Manager - Feb. 2016 - Nov. 2020

Avanade

Avanade/Accenture

- Mentored and advised multiple Junior consultants on how to navigate Avanade and become contributing team member to current and future projects.
- Advised mentees on project specific and technology issues.
- Mentored advisees on learning objectives and how to grow their careers in technology.

Mortgage Cadence

- Technical Architect on 2 separate Agile Scrum teams supporting both Project Manager and Development staff.
- Ensured all development efforts adhere to direction specified by Enterprise Architecture.

- Collaborated with developers and provided technical leadership and assist with all design efforts.
- Supported the Scaled Agile Framework “SAFE”. Planning and breaking down features to a place where individual development teams can create User Stories and be proficient with their estimates.
- Created various “proof-of-concepts” efforts to support the product roadmap and future efforts including migration to the Azure Cloud.

Amazon Web Services

- Created the best practices and developed a roadmap and methodology that will allow AWS customers to modernize legacy .NET applications.
- I developed a Proof-of-Concept for modernizing legacy .NET Framework 4.5 application to .NET Core MVC application.
- I defined strategies and produced white papers supporting our migration strategies that included .NET Framework to .NET Core migration and Entity Framework migration to EF .NET Core.
- I successfully decoupled legacy .NET Framework MVC Application into multiple REST API(s) inside Docker Containers and deployed in AWS Container Services.
- I designed and developed the DevOps process for building and delivering native cloud applications in AWS.

Dow Chemical

- Lead Architect Specialist for the Cloud Services team in building a Cloud Center of Excellence for Dow Chemical.
- Responsible for managing team of developers and cloud engineers in identifying and creating architecture patterns, documentation, Logical architectures, and determining best practices in Architecture design. Each pattern included the creation of working prototypes, CI/CD pipelines, as well as IAC automation.
 - Azure API Management and Gateway
 - Event Driven that included Azure Service Bus, Event Grid, and Queues
 - Serverless pattern that demonstrated the use of Azure Functions and Azure Logic apps
 - N-Tier pattern that included App Services and Managed database and Applications Insights
 - Azure Kubernetes
 - Hybrid architecture
- I designed and developed DevOps process for building and delivering native cloud applications. I created a library of Terraform modules utilized by the DevOps pipeline in procuring Azure resources via Infrastructure as Code. I worked intimately with internal Security to ensure that all Azure resources being procured via “Infrastructure as Code” complied with defined security requirements.
- Integrated with Service Now to take requests from the Development team and provisioning Azure Development Environments automatically. This process reduced the request to provisioning time by 90%.
- Design and prototype a Restful API service that will sit over top SQL Server, BW (SAP), and unstructured data sources. This was a POC effort to utilize Azure Service Fabric and Microservices Architecture.
- Responsible for the delivery of a mobile application with backend Rest API utilizing Azure Cloud Service. I led a team of up to 6 people from initial design to delivery. We utilized Azure Cloud Services and specifically Web App Services for the Rest API, Key Vault, Application Insights, and Azure SQL Server for the backend database. The mobile application was a single page app developed using the Ionic/Angular framework.

BMW Financial Services

- Led architecture and design of software features, including creating technical documentation to guide development and ensure alignment with business requirements.

- Collaborated closely with development teams to support feature implementation, resolve technical challenges, and ensure adherence to architectural standards. Backend tools include Microsoft .Net, NHibernate, C#, Rest API and the Frontend was being migrated from VB. Net to Angular JS.
- I participated in testing strategy and validation of solutions to verify functionality, performance, and compliance with requirements.
- I Conducted code reviews to maintain quality, consistency, and best practices across the codebase.
- I Supported deployment processes by validating release readiness and ensuring smooth transition of features into production environments

Owner/President - Dec 1999 – Current

Future Systems Consulting & Services, Inc

Remodel Cloud

- Developed commercial Software as a Service B2B product for the Home Remodeling industry using ASP .NET Core, MVC, C#, Azure SQL, Azure PaaS Services, Entity Framework, Docker, Containers, JavaScript, J-Query, Bootstrap, JS-Grid Plugin
- Created single-page mobile application for job field personnel us Angular (16+) and CSS (Currently in development).
- Integrated SaaS solution with Stripe, SendGrid, and QuickBooks ensuring streamline services for accounting and onboarding across multiple 3rd parties. QuickBooks integration included OAuth, Jobs, Customers, Estimates, Invoices, and payment integration.
- Automated deployment of code and infrastructure via Azure DevOps CI/CD and Terraform respectively.
- Created backend service API via .NET Core Rest API using C# and fully supported by NUNIT Testing for easy regression testing.
- Automated the provisioning of multi-tier Azure environment consigning of Azure App Services, Storage Accounts, Key Vault, Azure SQL Databases, VNET infrastructure, Service Bus, and Azure Functions
- Developed onboarding process using Azure Queues and Azure Functions ensuring redundancy for potential customers.

PlanIT Solutions

- Built multi-tenant wayfinding solution PLANIT Studio supporting over 40 Android based kiosks located in Medical Centers across the Midwest.
- Built Central administration solution allows for central administration and analytics for wayfinding kiosks across regional hospital systems. Solution used Microsoft .NET Core, C#, MVC, SQL Server.
- Create .NET Core Rest API using C#, MVC, and Azure
- Created responsive kiosk frontend constructed using HTML5, CSS3, JavaScript, and JQuery. (mvhapple.planitkiosks.com) executing as a web-view in Android base kiosk.
- Integrated kiosk solution with Maze Map giving hospital visitors the ability to visualize or take directions to their mobile device.

Cold Hard Football Facts

- Modernized SaaS (www.coldhardfootballfacts.com) from ASP .NET Framework application using ADO to .NET Core MVC application with Entity Framework allowing for ability to easily maintain and expand functionality.
- Facilitated the migration of SaaS product hosting multiple EC2 instances, and SQL Database in AWS to Microsoft Azure Managed environment consisting of App Services and Azure SQL reducing monthly hosting costs by 40%.
- Created multiple integrations with SaaS including Stripe, MailChimp, Sports Radar, Hang Fire, Twitter, and YouTube.

EDUCATION

Bachelor of Science in Computer Science
Bowling Green State University, Bowling Green, Ohio.

CERTIFICATIONS

Microsoft Certified: Azure Developer Associate – F70FC0-6E9155 – Expires Oct. 19, 2026
Microsoft Certified: DevOps Engineer Expert – F7DF15-73B014 – Expires Nov. 29, 2026
Microsoft Certified: Azure Solutions Architect Expert – 4FZ6AA-924855 – Expires Aug. 7, 2026
Microsoft Certified: Azure AI Engineer Associate – F47277-5DDDXC – Expires Aug. 25, 2026
Microsoft Certified: Azure Fundamentals – B5C7V5-BE4A8B – No Expiration
Scrum.Org – Profession Scrum Master I – No Expiration
Hashi Corp – Terraform Certified Associate – HCTAO-003 – Expires July 31, 2025