

Spencer Richardson

Software Engineer | Cloud Infrastructure & Enterprise Systems

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Professional Summary

Software Engineer with 8+ years of experience building cloud-scale distributed systems, AI-driven applications, and enterprise IT infrastructure. Proven expertise in C#, Python, JavaScript with strong focus on performance optimization, security assessment, and operational excellence. Experienced DRI for mission-critical systems supporting millions of users.

Education

Bachelor of Science in Information Systems

University of Maryland - Baltimore County
2012 – 2016

Professional Experience

Software Engineer | American Association for the Advancement of Science

Washington, DC | October 2018 – March 2025

- **Architected distributed backend services** in C# and Python supporting high-availability systems for thousands of concurrent users
- **Led modernization initiatives** transforming monolithic applications into cloud-scale microservices with zero-downtime deployments and improved observability
- **Built telemetry pipelines** detecting performance bottlenecks, enabling data-driven optimizations reducing response times by 45%
- **Served as DRI** for high-priority production systems, authoring on-call playbooks and leading incident resolution with minimal customer impact
- **Developed migration tools** enabling partner transitions from legacy storage systems to modern cloud infrastructure
- **Collaborated with stakeholders** including project managers to drive workgroup project plans and translate user requirements into scalable solutions

Software Engineer | DDSystems

Washington, DC | March 2017 – October 2018

- **Conducted comprehensive security assessments** including vulnerability scans, intrusion detection, and network security audits for enterprise clients
- **Designed IT infrastructure solutions** for healthcare, legal, and manufacturing sectors meeting compliance and operational requirements
- **Developed automation scripts** in Python and PowerShell for system monitoring, patch management, and maintenance across Windows/Linux environments
- **Led infrastructure modernization projects** migrating legacy systems to cloud-based solutions with improved reliability and business continuity

Core Competencies

Languages: C#, Python, JavaScript/TypeScript, Java, C++, PowerShell **Cloud & Platform:** Docker, Kubernetes, microservices, distributed systems, Windows/Linux **Security & Operations:** Application security assessment, vulnerability scanning, incident response, telemetry **Development:** RESTful APIs, event-driven architecture, CI/CD, migration tools, automation scripting

Technical Projects & Leadership

AI-Powered Applications: Built machine learning demos using Transformer models and developed AI-driven web applications

Team Leadership: Led 150+ collaborative sessions as Tabletop RPG organizer, demonstrating coordination and team-building skills