Spencer Richardson

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Software Engineer with 8 years of experience designing, implementing, and maintaining scalable software systems. Proven success in building robust back-end architectures, optimizing database performance, and delivering user-focused web applications. I am a collaborative team member with a strong attention to detail and a drive to continuously improve code quality and system performance.

Education

University of Maryland Baltimore County   **Baltimore, Maryland**
Bachelor's of Science in Information Systems   *2012 - 2016*

Professional Experience

American Association for the Advancement of Science   **Washington, DC**
Software Engineer   *October 2018 – March 2025*

- **System Architecture:** Designed and implemented distributed backend services in C# and Python supporting 5,000+ concurrent users with 99.9% uptime
- **Modernization Leadership:** Led migration of monolithic applications to cloud-native microservices architecture, achieving zero-downtime deployments and 60% improvement in system observability
- **Performance Optimization:** Built comprehensive telemetry pipelines and monitoring systems that identified critical bottlenecks, resulting in 45% reduction in average response times
- **Infrastructure Migration:** Developed automated migration tools enabling seamless partner transitions from legacy on-premise systems to modern cloud infrastructure, reducing migration time by 70%
- **Cross-functional Collaboration:** Partnered with product managers and stakeholders to translate business requirements into technical solutions, delivering 15+ major feature releases on schedule

DDSystems   **Washington, DC**
Software Engineer   *March 2017 – October 2018*

- **Security Assessment:** Conducted comprehensive security evaluations including vulnerability scanning, penetration testing, and network audits for 20+ enterprise clients across healthcare, construction, and manufacturing sectors
- **Infrastructure Design:** Architected compliant IT solutions meeting HIPAA, SOX, and industry-specific regulatory requirements while optimizing for performance and cost
- **Automation Development:** Created Python and PowerShell automation scripts for system monitoring, patch management, and maintenance, reducing manual operations by 80%
- **Cloud Migration:** Led infrastructure modernization projects migrating legacy Windows/Linux systems to cloud platforms, improving system reliability by 40% and reducing operational costs

Technical Skills

Languages: C#, Python, JavaScript/TypeScript, Java, C++
Cloud & Infrastructure: Docker, Kubernetes, AWS/Azure, microservices architecture
Databases & Storage: SQL Server, PostgreSQL, NoSQL, cloud storage solutions
DevOps & Tools: CI/CD pipelines, Git, monitoring/observability tools, automation scripting
Security: Vulnerability assessment, penetration testing, compliance frameworks, incident response
Development: RESTful APIs, event-driven architecture, distributed systems, migration tools

Leadership & Mentoring

Led architecture reviews and code quality initiatives across development teams
Mentored junior developers on best practices for distributed systems and cloud-native development