

Stephen Shamaiengar

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Seattle, WA

757-746-7888

SKILLS

Languages & frameworks: C#, C++, Python | gRPC, Protobuf, REST, React

Architecture: distributed systems, microservices, pub/sub, control/data plane, concurrency, high availability

Infrastructure: Azure, Service Fabric

Tools: Azure DevOps, GitHub, Git, Grafana, AI agents, MCP

EXPERIENCE

Microsoft, Azure Networking Services

Seattle, WA

Senior Software Engineer

Sep 2026 - Present

Software Engineer II

Sep 2023 - Sep 2026

- Built the foundation of a new C# control plane service—including the REST API gateway with authN/Z, 3 backend microservices, gRPC/Protobuf channels, instrumentation, and CI/CD—to enable availability zone failover for intensive networking workloads. It now powers 1000s of Gb/s of bandwidth including OpenAI's model inference
- Led incident management and maintenance for a legacy C# microservice. Migrated best-effort event handlers to a resilient batched processing pipeline, leading to a 95% reduction in customer-facing errors
- Role modeled adoption of agentic AI tools through team demos. Developed a specialized AI code review tool and pitched it at an internal conference, resulting in 10+ teams onboarded and 100s of PRs reviewed with AI
- Acted as DRI for team security workstreams. Partnered with PMs and red teams to triage, delegate, and track backlog work across multiple engineers, reducing the team backlog by 60%
- Participated in 12x7 on-call rotations responding to critical incidents across 10+ services. Drove long-term repairs to improve observability and reduce alert noise, contributing to 5+ bugs caught before impacting customers
- Ramped up and mentored new team members, from junior to principal engineer. Coached one engineer through shipping a build system migration in his first 6 months, yielding 50% faster CI builds

Software Engineer

Aug 2021 - Sep 2023

- Designed and implemented features to leverage a publisher/subscriber system in a C++ application on 1M+ VM host machines. Unblocked migration to the pub/sub-based stack for a networking product worth \$100M+/year
- Reproduced VM creation failure modes in Azure setups, traced service logs for root causes, and collaborated with other network control plane teams to resolve 100s of customer-impacting errors

EDUCATION

University of Virginia

B.S. in Computer Science & Cognitive Science – GPA 3.94 / 4.0

2021

- Relevant coursework: Internet-Scale Applications, Artificial Intelligence, Machine Learning, Adv. Software Development, Operating Systems, Algorithms

PROJECTS

Six Degrees of Spotify (personal)

- Implemented a Python backend for bidirectional breadth-first-search using Spotify's Related Artists API to connect any two artists.
- Reduced median response time 90% by parallelizing API calls with asyncio and result caching with Redis