**SRINIVASAN AMARANATHAN**

**Engineering Manager | AI & Cloud Architect | Microsoft Stack Specialist**  
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**SUMMARY**

Engineering leader with 14+ years bridging architecture, engineering management, and cloud & AI innovation. Demonstrated success migrating enterprise .NET workloads to Azure (+25% scalability), launching generics libraries and AI agents using Semantic Kernel, and improving production reliability through observability, security hardening, and SRE practices. Passionate about mentoring, system design, and building high-performing teams.

**📌 Key Achievements**

**• High-Level Architecture & Design:** Reviewed and authored high-level designs across major projects, ensuring scalability, modularity, and performance alignment with business goals  
**• Code Quality & Governance:** Enforced coding standards and performed regular code reviews — improved code quality and reduced defects by 20% **• Cloud Migration Leadership:** Led successful migration of legacy .NET systems to Azure, improving system scalability by 25% and enhancing platform reliability  
**• AI Agent Development:** Built intelligent AI agents (chatbots, document extractors) using Semantic Kernel + Azure OpenAI — automated manual workflows, boosting efficiency by 25%  
**• Reusable Library Creation:** Developed a generic .NET/C# utility library used across teams, reducing duplicated code and saving ~20% dev time  
**• Observability & Monitoring:** Integrated Azure Application Insights and Sumo Logic to improve triage speed — reduced incident resolution time by 30% **• Security Hardening:** Led Fortify-based vulnerability cleanups and security best practices adoption **• AI-Driven SRE Automation:** Created an SRE agent that listens to PagerDuty alerts, triages incidents, auto-creates Azure DevOps (ADO) tickets, and posts first-level analysis in team chat — reducing manual effort and improving response time **• SRE Automation & Dashboards:** Built Grafana dashboards for real-time system observability and developed an AI-powered SRE agent that monitors PagerDuty alerts, auto-creates ADO tickets, performs first-level triage, and posts updates to Teams — streamlined on-call operations and reduced response time

**EXPERIENCE**

**Engineering Manager** • Xome • Chennai • Jan 2022–Present

* **Led** 3 teams (2 Agile + 1 L2 support) totaling 15+ engineers to deliver scalable Azure-based solutions.
* **Designed** high-level architecture and **reviewed** subordinate HLDs for modularity, resilience, and performance.
* **Created** and championed a **generic .NET/C# library**, standardizing utility functions across teams—cut dev time by ~20%.
* **Built POC AI agents** using *Semantic Kernel* & Azure OpenAI, automating document extraction and chatbot workflows—**reduced manual processing time by 25%**.
* **Reviewed code** enforcing best practices, leading to **15% fewer production bugs**.
* **Migrated** legacy .NET apps to Azure (App Insights, APIM, B2C, Blob, Key Vault, Bot Services)—increased uptime by 99.9%.
* **Implemented** observability via Application Insights and Grafana dashboard, slashing incident detection time by **30%**.
* **Developed an AI-powered SRE agent** that auto-monitors PagerDuty alerts, creates ADO tickets, performs initial triage, and posts findings in Microsoft Teams — saving 30–40% of on-call effort.
* **Shaped** product roadmap in collaboration with stakeholders, aligning delivery with business strategy.

**Lead Software Engineer** • Trimble Inc. • Chennai • Sep 2019–Jan 2022

* **Designed** and launched analytics & alerting dashboards using Node.js + React—**reduced decision-risk latency by 40%**.
* **Led** dual role as developer & Scrum Master; introduced Agile processes and sprints, increasing velocity by 25%.
* **Integrated** Sumo Logic across apps, improving error monitoring and reducing mean time to recovery (MTTR) by 35%.

**Senior Software Engineer** • Wolters Kluwer ELM Solutions • Chennai • Jan 2016–Aug 2019

* **Architected** and built scalable SaaS platforms with C#, Web API, and jQuery—serving thousands of legal/accounting users.
* **Mentored** junior engineers adopting TDD; raised code coverage from 60% to 85%.
* **Facilitated** Agile ceremonies and backlog refinement, improving sprint delivery by 20%.

**Previous Roles**:  
Senior Consultant – Hitachi Solutions; Software Analyst – Bally Technologies; Software Engineer – IGATE

**KEY ACHIEVEMENTS**

* **Cloud Modernization**: Improved scalability by 25% through Azure migration.
* **AI Agent Innovation**: Launched AI-powered workflows, saving 25% on manual effort.
* **Reliability & Monitoring**: 30% faster incident resolution via observability enhancements.
* **Security & SRE**: Introduced secure coding and on-call practices.
* **Library Development**: Created reusable framework reducing dev cycle by 20%.

**TECHNICAL SKILLS**

**Languages/Frameworks**: C#, .NET Core, ASP.NET MVC/Web API, JavaScript, Node.js, React  
**Cloud & AI**: Azure (App Insights, Key Vault, APIM, B2C, Blob, Bot, OpenAI), Azure OpenAI, Semantic Kernel  
**DevOps/Monitoring**: Azure DevOps, Docker, Kubernetes, Sumo Logic, Application Insights  
**Database**: MS SQL Server  
**Practices**: Agile/Scrum, SRE, TDD, Code Review, Security Hardening

**CERTIFICATIONS**

* Microsoft Certified: Azure Developer Associate
* Scrum Master Certified (SMC) – Scrum Alliance
* Sumo Logic Fundamentals & Search Mastery
* Google Cloud – Qwiklabs

**EDUCATION**

**M.Tech in Computer Software Engineering**  
Vellore Institute of Technology • 2005–2010

**AWARDS**

* Xome Quarterly Award (“Challenger”), 2024
* Xome CIO Award (“Champion”), 2022
* Peer Recognition & Cheerleader Awards, 2023