

Anji Keesari

Cloud Architect
San Ramon, CA

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Summary

Cloud Architect with 23+ years of experience designing and delivering enterprise-scale, cloud-native solutions. Expert in Microsoft Azure, Kubernetes, Terraform, and DevOps automation. Skilled in designing secure, scalable financial services platforms aligned with well-architected framework principles. Strong background in full-stack development, technical leadership, and enterprise transformations. Emerging expertise in integrating AI/ML capabilities (Microsoft Foundry, OpenAI, AI agents, LLMs) into cloud architectures. Published author and technical educator with global impact through 80+ articles, 2 books, and 2 peer-reviewed papers.

Skills

Cloud Platforms:	Architecture & Design:	Programming & AI/ML:
✓ Microsoft Foundry, Open AI,	✓ Agentic AI with MCP (Model Context Protocol)	✓ GPT-5, AI Agents, GitHub Copilots, LLM integration, Prompt Engineering, RAG
✓ Azure Infrastructure (IaaS, PaaS, SaaS)	✓ Multi-Agent Architecture	✓ AZ CLI, PowerShell, Bash, ARM/JSON, Terraform
✓ Azure Kubernetes Service (AKS), Container Apps, Container Registry	✓ Azure Well-Architected Framework	✓ C#, .NET, React, Node JS, SQL, PSQL
✓ Azure API Management, App Services, Logic Apps, Azure Functions (Serverless)	✓ Multi-tenant Architecture	✓ Azure DevOps, GitOps, Git, Docker, Kubectl, WSL
✓ Azure Monitor, Log Analytics, Application Insights	✓ Microservices, Event-driven Architecture (Kafka, Event Hubs)	✓ ArgoCD, Helm Charts
✓ Azure Security Center, Microsoft Entra, RBAC, Sentinel, Key vault, Azure firewall	✓ Enterprise Cloud Migration	✓ YAML Pipelines
✓ Hybrid Cloud (Arc, ExpressRoute, VPN Gateway), Azure VMs & AVDs	✓ CI/CD Architecture, GitOps	✓ Prometheus & Grafana, Jaeger & OpenTelemetry, Dynatrace, Datadog
✓ Application Gateway, Front door, Azure Firewall, LB, WAF, CDN, DNS	✓ API Gateway, Pub-Sub pattern	✓ NGINX Ingress
✓ Cosmos, MongoDB, SQL & PostgreSQL, Redis Cache	✓ Cost Management, Auto-scaling	✓ Okta, F5, LDAP, Imperva
✓ Azure Fabric	✓ Security Architecture, Zero Trust, Security Mgmt, Identity	✓ Cert manager-Let's Encrypt
	✓ Disaster Recovery, High Availability	

Professional Experience

Cloud Architect | AssetMark | Concord, CA

Jul 2018 – Present

- Leading integration of **AI/ML technologies** into enterprise cloud platforms at AssetMark, implementing Azure OpenAI-powered solutions, AI agent systems, and intelligent automation using large language models (GPT-5).
- Developing **AI agents** and multi-agent systems for workflow automation, applying prompt engineering and chain-of-thought techniques to optimize LLM performance for financial services use cases.
- Building Model Context Protocol (**MCP**) servers and GitHub Copilot agents to enhance developer productivity and enable sophisticated AI interactions within cloud-native applications.
- Leading enterprise-wide cloud transformation at AssetMark, architecting a scalable, secure cloud-based **Nextgen digital platform** that now serves as the standard for all future product development.
- Designed and implemented cloud-native architectures and **scalable microservices** using Kubernetes, PostgreSQL Kafka, Helm, and ArgoCD, enabling automated deployments and streamlined application lifecycle management.
- Designed and deployed **event-driven solutions** using Kafka and Azure Event Hubs, supporting high-throughput asynchronous communication in modern cloud systems.
- **Architected a secure multi-tenant platform**, enabling isolated, scalable service delivery for various business units and customers.

- Automated Azure infrastructure provisioning using **Terraform** with support from PowerShell, Bash, and Azure CLI scripting. Built modular, reusable templates and enforced security and compliance through Azure Policy.
- Recognized for strong stakeholder collaboration and the ability to translate **business goals** into scalable cloud solutions, contributing to organizational growth and innovation.
- Authored two widely read technical books on Microservices, Kubernetes, Helm, and ArgoCD, and contributed tutorials on [anjikesari.com](#) and Medium.com, educating thousands of developers worldwide.
- Played a key role in migrating legacy monolithic applications to **microservices-based architectures**, improving system reliability, maintainability, and performance.
- Designed **cloud security architecture** by integrating Microsoft Defender for Cloud, CrowdStrike, and implementing fine-grained RBAC policies across a multi-tenant Azure platform; Also fixed **penetration testing issues** to close security gaps and ensure compliance.
- Designed and implemented a **disaster recovery strategy** using Azure Site Recovery, Azure Backup, and geo-redundant storage (GRS) to ensure high availability and business continuity. Aligned recovery objectives with business requirements and validated failover through regular DR drills.
- Integrated CNCF tools like **Prometheus**, **Grafana**, **Jaeger**, and **OpenTelemetry** into Kubernetes environments.

Technical Architect / Tech Lead | Tata consultancy Services (TCS) | India, USA, UK

Apr 2006 – Jul 2018

- Led Azure cloud and enterprise software development initiatives for global clients across the UK, US, and India, delivering secure, scalable, and high-performance solutions.
- AXA PPP Healthcare (UK):** Joined as a Technical Architect and contributed to three major projects; designed and implemented Azure cloud-based healthcare applications using .NET, C# & SQL server.
- AssetMark (USA):** Developed the eWealthManager financial platform using ASP.NET MVC, C#, and implemented proposal generation and client service agreement automation via dynamic PDFs.
- Genworth Financials:** Served as a Senior Software Engineer on an AssetMark web application; developed ASP.NET MVC 3 pages using Razor (CSHTML), C#, jQuery, and ASP.NET AJAX for dynamic, data-driven user experiences.
- Bear Stearns:** Built Windows-based financial applications using VB.NET and C# to support internal trading operations and business workflows.

Software Engineer | Lauren Information Technologies Pvt Ltd | Mumbai, India

Dec 2005 – Apr 2006

Developed a web-based application for Pfizer using C#, ASP.NET, ADO.NET, and SQL Server. Created custom controls, implemented client-side validation with JavaScript, and designed database triggers and stored procedures.

Developer / Faculty | Comply Solutions Pvt Ltd | Mumbai, India

Jun 2002 – Dec 2005

Worked as a .NET Developer on web-based applications using .NET, C#, ASP.NET, and JavaScript. Also served as a part-time faculty member at Bhavan's and Mithibai College in Mumbai, teaching programming and IT-related subjects.

Education

- ✓ Master of Science in Computer Science, University of Mumbai, Mumbai, India
- ✓ Bachelor of Science in Mathematics, Physics, Chemistry, Osmania University, Hyderabad, India

Certifications

- ✓ Microsoft Certified Azure Fundamentals (AZ-900), Microsoft Certified Azure Administrator Associate (AZ-104)
- ✓ Microsoft Certified Technology Specialist (MCTS), Microsoft Certified Professional Developer (MCPD)
- ✓ Hashi Corp Certified: Terraform Associate (003), TOGAF 9 - The Open Group Architecture Framework

Publications

- ✓ High-Throughput Cloud-Native Messaging Architectures: Design and Performance Analysis of Pub/Sub Microservices with Kubernetes and Azure Event Hub – (IJARCSMS)
- ✓ AI-Driven Algorithmic Trading: Integrating Machine Learning, Hybrid Technical Indicators, and Risk Management for Momentum Strategies – (IJECS)