

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, Kubectrl, 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
<ul style="list-style-type: none">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 **anjikeesari.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)