

KARTHIKEYAN MANICKAVASAGAM

Solutions Architect | 18+ Years of Experience

Phone: +91 893 9944 664

Email: karthikey.m@gmail.com

Location: Chennai, India

LinkedIn: [linkedin.com/in/karthikeyan-manickavasagam](https://www.linkedin.com/in/karthikeyan-manickavasagam)

Blog: karthiksolution.wordpress.com

GitHub: <https://github.com/keyan1603>

SUMMARY

Solutions Architect with 18+ years of experience building cloud-native platforms, microservices, and AI solutions across Life Sciences, Banking, Telecom, Retail, and Energy sectors. International client exposure across the US, Europe, Australia, Singapore, and Canada. Deep expertise in cloud architecture (AWS, Azure), Kubernetes, distributed systems architecture, CI/CD automation, composable DXP strategies, and MCP-based agentic workflows. Proven leader of RFPs, SOWs, and PoVs winning engagements from \$200K to \$3M. Multiple award-winning technologist, active AI practitioner leading cross-functional teams to deliver AI-enabled customer experiences and recognized community leader.

EXPERIENCE

Senior Manager / Senior Solutions Architect

November 2021 – Present

Capgemini

Chennai, India

- Solutions Architect for CMS and DXP architecture of a Fortune-500 biopharmaceutical client (Amgen), shaping enterprise-scale digital experience platforms for 15-50 person teams.
- Developed an AI-powered MVC-to-Headless converter reducing migration effort by 40%.
- Containerized Sitecore IaaS applications to AWS EKS with ALB for traffic distribution, saving ~\$30,000/month in infrastructure costs; designed full DR recovery strategy for the infrastructure.
- Architected & built microservices on AWS Lambda using .NET 10 with AWS EventBridge for event-driven integration, orchestrating downstream REST endpoints via API Gateway, enabling independent deployability for 15+ services and supporting 2x traffic growth without downtime.
- Automated GitLab CI/CD pipelines using AI-driven governance, enabling zero-click deployments and reducing deployment effort by 95%.
- Raised AWS feature request for Windows worker node support in Container Insights/EKS - successfully implemented and publicly announced by AWS in April 2024.
- Led multiple RFPs, SOWs, and PoVs winning engagements from \$200K to \$3M; drove Capgemini's Sitecore partnership, upgrade programs, and specialization badge certifications.

Solutions Architect

June 2021 – November 2021

Wipro

Chennai, India

- Led solution design for GTAA Airport kiosk modernization (Toronto Pearson International Airport) using ASP.NET MVC backend and ReactJS frontend covering requirements, effort estimation, system and network design, Azure DevOps setup; transforming static map-only kiosks into next-generation location-aware information systems with zero-defect production rollout.

Technical Architect / Development Lead

September 2013 – May 2021

Accenture

Chennai, India

- Merck & Co.: Led Sitecore 8.2 → 9.3 upgrade using ASP.NET MVC, custom pipeline processors, and Helix architecture with zero post-live defects; quality delivery earned contract extension for enhancements and a follow-on support engagement.
- Johnson Controls (JCI/York/Tyco): Migrated 100+ components from standard Sitecore to SXA using ASP.NET MVC rendering patterns and custom SXA variants; client signed additional contracts for ~100 sites migration on delivery excellence.
- ExxonMobil WEP 2.0: Led migration of 80+ websites to Sitecore 9.1 SXA on .NET stack - received ACE (Accenture Celebrates Excellence) award for this project.
- Walmart: Successfully migrated 200 sites in a short span during Win2K3 elimination program modernizing legacy .NET apps.
- Puget Sound Energy: Modernized PSE website from scratch on Sitecore 9.0 SXA with ASP.NET MVC, delivering clean component architecture - received ACE Team Award for smooth, on-time delivery.

Developer to Tech Lead

January 2008 – September 2013

Infosys / TCS

Chennai, India

- Infosys: Module Lead and SME for Rabobank (Australia & NZ) Loan Origination System built on .NET, WCF, WPF, SSRS, SSIS - awarded First Prize in Infosys DREAM Award 2013.
- TCS: Delivered enterprise .NET systems for financial clients; awarded Best Young Performer 2009.

KEY BUSINESS ACHIEVEMENTS

Revenue Growth: Increased revenue by 15% by launching GenAI-driven cross-sell and upsell journeys.

Cost Savings: Migrated legacy IaaS to AWS EKS, saving ~\$30,000/month in infrastructure costs.

Increased Engagement: Boosted customer engagement by 25% and conversion rates by 15% using GenAI hyper-personalization.

Scalability: Delivered systems handling 2x traffic growth without downtime through microservices design.

Deployment Efficiency: Reduced deployment effort by 95% with AI-driven CI/CD governance enabling zero-click deployments.

Project Success: Won multiple RFP engagements by aligning solutions with client strategic goals and demonstrating long-term ROI.

AWARDS & RECOGNITION

- iEvoLve Certificate – CI/CD Automation using AI (Kaizen Methodology) 2026 - Capgemini
- DCX GEM Award 2025, DCX Enabling Champion 2024, DCX Customer Delight Award 2022 - Capgemini
- ACE Award (Accenture Celebrates Excellence) 2016 & 2018 - Accenture
- First Prize – Infosys DREAM Award 2013 - Infosys
- Best Young Performer 2009 - TCS

SKILLS

Cloud & DevOps: AWS (EKS, Lambda, API Gateway, ALB, CloudWatch, Container Insights), Azure, Kubernetes, Docker, GitLab CI/CD, Jenkins, Azure DevOps, Vercel, GitHub Actions, Prometheus, Grafana

AI & GenAI: MCP, OpenAI, Claude, Codex, GitHub Copilot, Microsoft AI Foundry, Agentic Workflows, LangChain

Languages & Frameworks: C# / .NET 10, ASP.NET Core MVC, React, Next.js, HTML, CSS, Sass

CMS & DXP: Sitecore (XM Cloud, SXA, JSS, Headless), Contentstack, Composable DXP Architecture, Headless CMS

Search: Solr, Coveo (on-premise and cloud)

Databases: Microsoft SQL Server, Oracle, MongoDB

Architecture: Microservices, Cloud-Native, Composable Architecture, Event-Driven Design (AWS EventBridge), Enterprise Integration

CERTIFICATIONS

- Sitecore AI CMS Developer Certification
- Sitecore XM Cloud Developer Certification
- Sitecore 10 .NET Developer Certification
- Sitecore Experience Solution 9 Developer Certification
- Contentstack Developer Certification
- AZ-900 – Azure Fundamentals
- Scaled Agile Certified SAFe 5 Practitioner
- MCTS 70-486: Developing ASP.NET MVC Web Applications

COMMUNITY ENGAGEMENT & THOUGHT LEADERSHIP

- Technical blogger for 6+ years at karthiksolution.wordpress.com covering Kubernetes, AI, Sitecore, and enterprise architecture.
- Organized and hosted 24+ SUG Chennai webinars on Sitecore architecture and emerging trends, featuring multiple Sitecore MVPs.
- Raised AWS GitHub feature request for Windows container support in EKS/Container Insights implemented and publicly announced by AWS in April 2024.

EDUCATION

Bachelor of Engineering – Computer Science

Anna University, Chennai | Graduated with Distinction

2003 – 2007