

KARTHIKEYAN SAMPATH KUMAR

Chennai, India 600019 | (+91) 9940562091 | karthikn.sampathkumar@gmail.com | [LinkedIn Profile](#)

Professional Summary

Technical Architect with 14+ years of experience designing, modernizing, and supporting large-scale enterprise applications, APIs, and cloud-based solutions. Expertise in .NET Core, Microservices, Azure, AWS, SQL Server, and MongoDB, with a proven ability to lead engineering teams, drive technical excellence, and deliver scalable business-critical systems. Strong background in enterprise integrations, stakeholder management, and translating complex business requirements into innovative technical solutions. Aviation domain exposure through development of flight operations and scheduling platforms further strengthens the ability to deliver solutions in highly regulated and operationally complex environments.

Technical Background

Technical Skills: C#, ASP.NET Core, .NET Core Web API, ASP.NET MVC, React, JavaScript, HTML, Microservices Architecture, Clean Architecture, Monolithic Architecture, Python, Data Science, REST API Design, MongoDB, IIS, SQL Server, Oracle, GraphQL, Docker, Azure Services, AWS Services, Azure DevOps, Git, Apigee Gateway, Performance Tuning, Optimization, Code Review

Leadership & Delivery: Team Leadership, Technical Mentoring, Coaching & Mentoring, Scrum/Agile Methodologies, Problem Solving, Conflict Resolution, Solution Architecture, Database Design

Monitoring & Analytics: AppDynamics, Tableau, Redshift, Control-M, Zenoss

Professional Experience

ASSOCIATE CONSULTANT 05/2025 to Present

TATA CONSULTANCY SERVICES

- Designed the architecture and database model for the JemsCo Manufacturing Flow project, ensuring scalability and maintainability.
- Consulted on and implemented security vulnerability remediation solutions for the SWB application.
- Implemented non-functional requirements, including performance, security, and reliability enhancements for the SWB application.

TECH LEAD – IT SOFTWARE

05/2024 to 05/2025

RR DONNELLEY

- Developed IDC pipeline, a no-code platform, utilizing .NET Core Web API and MongoDB.
- Designed database architecture in MongoDB to support application functionalities.
- Implemented clean architecture for Web API used by configuration and customer portals.
- Created user interface and complex functionalities with Razor Pages.
- Managed a team of 11, overseeing development of customer portal features.
- Administered instance creation for various level types within the application.
- Configured settings to customize end-user experience in customer portal.
- Divided application into configuration and customer portals for streamlined access.

SENIOR ANALYST 2

03/2022 to 05/2024

DXC TECHNOLOGY SOLUTIONS

- Spearheaded migration of dental network administration project from WCF to ASP.NET Core Web API.
- Managed a team of four developers, ensuring accountability for module development.
- Analyzed requirements and developed core Web API endpoints and functionalities.
- Successfully deployed application to production without defects, maintaining high quality standards.

LEAD .NET ENGINEER

11/2019 to 03/2022

DXC TECHNOLOGY SOLUTIONS

- Developed 85 stored procedures for Tableau integration in Premier Apps support team.
- Documented client requirements to enhance team understanding and clarity.
- Facilitated communication with clients to gather and clarify project needs.

SENIOR .NET ENGINEER**08/2018 to 11/2019****DXC TECHNOLOGY SOLUTIONS**

- Proposed and developed an automation framework, creating over 60 batch jobs based on client requirements.
- Took ownership of automation job to ensure successful deployment and operation.
- Analyzed client requirements to drive automation strategies and enhance efficiency.

OFFSHORE BUSINESS UNIT LEAD, TECH LEAD .NET**08/2015 to 08/2018****DXC TECHNOLOGY SOLUTIONS**

- Managed team of seven in Chennai offshore business unit to support disability insurance operations.
- Handled client engagement annually in Pittsfield, MA for knowledge transfer on new application enrollments.
- Led team in resolving technical issues reported via ServiceNow within specified SLA.
- Took ownership of GLIC disability initiatives, gathering requirements for enhancements and deploying solutions in production.
- Addressed production server and performance issues to ensure optimal functionality.
- Coordinated projects involving seven applications supporting disability insurance, with complexity based on gold, silver, and copper tiers.
- Oversaw application management for eApp, MLAppStar, and other tools to facilitate new business processes.

PROGRAMMER ANALYST**09/2014 to 07/2015****COGNIZANT TECHNOLOGY SOLUTIONS**

- Developed and enhanced web application functionalities for motor insurance claims processing using .NET.
- Led the offshore development team, managed TFS activities, and provided technical guidance to ensure successful project delivery.

.NET DEVELOPER**06/2014 to 08/2015****COGNIZANT TECHNOLOGY SOLUTIONS**

- Developed and maintained FastTrack Motor, a Motor Insurance Claims Management System that streamlined claim processing from registration through settlement.
- Collaborated with Business Analysts to gather requirements and develop new functionalities, enhancing claim approval workflows and payment processing.

ASSOCIATE SOFTWARE ENGINEER**02/2012 to 04/2014****GAVS TECHNOLOGIES**

- Developed and enhanced Flight Pak, an aviation operations management platform supporting flight logistics, crew, passenger, fleet, fuel, and payment management.
- Analyzed business requirements and built scalable web-based functionalities, including third-party system integrations and automated reporting features.
- Led the development of key modules from design to deployment, ensuring high-quality delivery and collaboration with cross-functional teams and stakeholders.

Education

BE: Computer Science

DMI College of Engineering

Postgraduate: Business Analytics and Business Intelligence

Great Lakes Institute of Management