

Rajamanickam Ramasamy

Currently Working in: Publicis Sapient, Chennai

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Profile:

Senior .NET Engineer with 10+ years of experience designing and developing scalable enterprise applications using **ASP.NET Core, C#, Azure cloud platforms**, and **microservices-based architectures**. Experienced in building **cloud-native solutions**, implementing **DevOps-driven delivery pipelines**, and applying modern architecture patterns for reliability and performance.

Hands-on experience in **Semantic Kernel-based orchestration, LLM sentiment analysis prototypes**, and **Azure OpenAI integration-ready architectures** enabling intelligent automation within enterprise platforms.

Core Competencies:

- **Cloud** (Azure): App Service, Azure Functions, Azure SQL, Cosmos DB, Blob Storage, Storage Accounts, API Management, Managed Identity, Entra ID, VNETs, Private Endpoints, Azure Monitor
- **AI & Intelligent Systems**: Semantic Kernel, Phi models (Ollama), LLM-based Sentiment Analysis POC, Prompt Engineering, Retrieval-Augmented Generation (RAG – concept & experimentation), Azure OpenAI integration concepts
- **Cloud Patterns**: API Gateway (APIM), Event-Driven Architecture, Circuit Breaker, Retry Pattern, Pub/Sub
- **DevOps**: Azure Boards, Azure Pipelines (CI/CD), Azure Artifacts, Git
- **Backend**: ASP.NET MVC, ASP.NET Core Web API, REST, C#, LINQ, EF Core, ADO.NET, Clean Architecture, CQRS, Microservices, Pub/Sub
- **Frontend**: Angular, JavaScript, TypeScript, jQuery
- **Database**: SQL Server, PostgreSQL, Oracle, Azure MySQL Flexible Server
- **Testing & Quality**: NUnit, xUnit, SonarQube, JMeter, Postman
- **Exposure**: Docker, Kubernetes (basic), Node.js/Express (basic), Elasticsearch, DataDog

Professional Experiences:

Senior Associate Level 2

Company Name : Publicis Sapient, Chennai.

Duration : Dec 2025 to till date

Technical Architect :

Company Name : Hexaware Technologies, Chennai.

Duration : June-2024 to Nov 2025

Associate

Company Name : Cognizant Technologies, Chennai.

Duration : June-2018 to May-2021

Software Engineer

Company Name : TVS Next Pvt Ltd, Chennai.

Duration : March-2017 to May-2018

Software Engineer

Company Name : Shlok Information Systems India Pvt Ltd, Coimbatore.

Duration : Dec-2014 to Feb-2017

Educational Qualifications:

Post-Graduation: Master of Computer Applications, SNS College of Technology, Coimbatore Anna University, Chennai during the period 2011-14, with CGPA 8.1.

Under Graduation: Bachelor of Computer Applications, Vidyasagar College of Arts and Science, Bharathiar University, Coimbatore during the period 2008-11, with 72%

Projects:

Publicis Sapient

Title	: Customer Feedback Intelligence – LLM Assisted Sentiment Insights (R&D Initiative)
Team Size	: 2
Technology	: .NET 8 Web API, C#, Microsoft Semantic Kernel, REST APIs, JSON Processing
Design Pattern	: Clean Architecture, Service-Oriented Processing Layer
Cloud Pattern	: Circuit breaker, Retry for resilience, Pub/Sub and Durable functions for communication orchestration
Database	: SQL Server (POC storage for feedback results)
IDE	: Visual Studio 2022
Role	: Prototype Design, Development, Prompt Engineering, Performance Evaluation, Documentation
Duration	: 2 months
Description	: Developed a short-term R&D prototype to evaluate the feasibility of integrating lightweight LLM capabilities into enterprise .NET applications for automated customer feedback analysis. Built a .NET 8 Web API-based sentiment intelligence module to process customer feedback text and classify it into positive, neutral, and negative sentiment categories. Implemented prompt orchestration using Microsoft Semantic Kernel to manage execution workflows and response parsing. Hosted Microsoft Phi language models locally via Ollama to enable privacy-friendly offline inference experimentation. Exposed REST endpoints to support real-time and batch feedback processing scenarios. Performed prompt tuning and response evaluation to improve classification consistency and inference performance. Stored structured sentiment outputs for reporting and trend analysis. Designed the architecture with endpoint abstraction to allow seamless future migration to Azure OpenAI services for enterprise-scale deployment.

Roles and Responsibilities:

- ✓ Designed and implemented the .NET Web API prototype for feedback sentiment processing.
- ✓ Integrated Microsoft Semantic Kernel for prompt orchestration and response parsing workflows.
- ✓ Hosted and tested Microsoft Phi models via Ollama for offline LLM inference experimentation.
- ✓ Performed prompt tuning, latency benchmarking, and response consistency evaluation.
- ✓ Developed structured JSON output pipelines for integration with downstream reporting systems.
- ✓ Documented feasibility findings and architectural recommendations for future Azure OpenAI adoption.

Hexaware Technology

Title	: FDT Digital Trading, AON (USA)
Team Size	: 15
Technology	: ASP.Net Core Web API, C#, Microsoft Azure, ADO.Net, Automapper, Xunit, DevOps, GIT, DI
Azure Services	: Azure Function App, Azure EventGrid, Azure EventHub, Azure Data Factory, Azure App Services
Design Pattern	: MediateR with CQRS, Clean and Microservices Architecture
Cloud Pattern	: Circuit breaker, Retry for resilience, Pub/Sub and Durable functions for communication orchestration
Database	: Azure MSSQL Server.
IDE	: Visual Studio 2022
Role	: Development, Unit Testing, Code Review, CI/CD Pipeline, Code merge, Release artifact preparation, Azure Service Management.
Duration	: 12 months

Description : The AON Insurance project aims to integrate multiple applications—FDT Digital Trading, Treaty, and FacGSM—each with its respective databases (FDT, Treaty, and Destiny DBs) using Azure services like Event Grid, Event Hub, and Function Apps for seamless data synchronization. The focus is on creating and managing submissions in the FDT application, which includes layer and market details. When submissions are promoted, they automatically sync with the Treaty and Destiny databases, ensuring data consistency through a bidirectional merge process. This integration enhances operational efficiency, improves data integrity, and facilitates better decision-making within AON Insurance's digital trading ecosystem..

Roles and Responsibilities:

- ✓ Involved in the Development functionalities.
- ✓ Unit Testing with Xunit
- ✓ Code review and merge
- ✓ Azure Services management
- ✓ Azure CI/CD Pipeline

Hexaware Technology

Title	: VASA – Lead Management System, Virgin Active (South Africa)
Team Size	: 6
Technology	: ASP.Net Core Web API, C#, Microsoft Azure, ADO.Net, Automapper, Xunit, DevOps, GIT, DI
Azure Services	: Azure Function App, Azure Logic App, Azure App Services
Design Pattern	: Layered Architecture with Repository pattern
Database	: Azure MySQL Flexible Server.
IDE	: Visual Studio Code
Role	: Development, Unit Testing, Code Review, CI/CD Pipeline, Code merge, Release artifact preparation, Production Deployment, Azure Service Management.
Duration	: 10 months
Description	: The primary objective of the Lead Management System is to streamline and enhance the process of managing leads effectively. By implementing this system, we aim to achieve the following: <i>Efficient Lead Handling:</i> Ensure leads are captured, tracked, and processed seamlessly. <i>Improved Collaboration:</i> Foster collaboration among teams involved in lead management. <i>Enhanced Reporting:</i> Provide comprehensive reporting capabilities to analyze lead data and performance. <i>Integration with External Systems:</i> Seamlessly integrate with external tools like HubSpot, MAKE, ConnexOne, and others.

Roles and Responsibilities:

- ✓ Involved in application design team to make sure SOLID principles are not overruled
- ✓ Involved in the Development functionalities.
- ✓ Unit Testing with Xunit
- ✓ Code review and merge
- ✓ Azure Services management
- ✓ Azure CI/CD Pipeline

Hexaware Technology

Title	: VASA – Pay Hub Portal, Virgin Active (South Africa)
Team Size	: 6
Technology	: ASP.Net Core Web API, C#, Microsoft Azure, ADO.Net, Automapper, Xunit, DevOps, GIT, DI and Unity with Repository pattern
Azure Services	: Azure Function App, Azure Logic App, Azure App Services
Database	: Azure MySQL Flexible Server.
IDE	: Visual Studio Code
Role	: Development, Unit Testing, Code Review, CI/CD Pipeline, Code merge, Release artifact preparation, Production Deployment, Azure Service Management.
Duration	: 16 months
Description	: PayHub is a comprehensive platform designed for clubs and contact center teams to streamline payment collection processes. It facilitates multiple payment methods including Pay-By-Link and Agent Request, as well as capturing receipts via SpeedPoint and Direct Deposits. The platform also supports

guest payments collection and includes a robust refunds approval flow. Additionally, PayHub ensures secure decryption of bank details for seamless transactions

Roles and Responsibilities:

- ✓ Involved in application design team to make sure SOLID principles are not overruled
- ✓ Involved in the Development functionalities.
- ✓ Unit Testing with Xunit
- ✓ Azure Services management
- ✓ Azure CI/CD Pipeline

Cognizant Technology Solutions

Title	: Traffic and Trading System 2.0, Glencore Agriculture Netherlands (Web Application)
Team Size	: 60
Technology	: ASP.Net Core Web API, C#, Angular v8, Microsoft Azure, ADO.Net, Automapper, Xunit, SonarQube, TIOB TICS, DevOps, GIT, DI and Unity with Repository pattern
Database	: Oracle.
IDE	: Visual Studio'17
Role	: FP analyses, Development and Unit Testing.
Duration	: 15 months
Description	: TTS2.0 it's a migration from power builder to web-based application. Which is helpful for internal employees to track with their contracts (internal and external). Application modules involves from contract registration, contract execution, pricing, stock control and transfer. Each module has its own set of sub modules and functionalities with reports as well.

Roles and Responsibilities:

- ✓ Involved in the function point analyses
- ✓ Involved in application design team to make sure SOLID principles are not overruled
- ✓ Involved in the Development functionalities.
- ✓ Unit Testing with Xunit
- ✓ Code quality metrics and code coverage tests
- ✓ Software quality measurement with TIOB TICS

TVS Next Pvt Ltd

Title	: Pearson Video Library, USA (Web Application)
Team Size	: 6
Technology	: Node Js, Angular 5, Express Js and Elasticsearch with Ingestion
Database	: SQL Server 2014, Stored Procedure.
IDE	: Visual Studio Code
Role	: Development and Unit Testing.
Duration	: 3 months
Description	: Pearson searchable video collection is a web-based application. It uses to educate their users (Its part of an LMS system). It contains list of videos available in various categories. Videos available to the users based on their pack subscription. Site has Trending videos and recommended videos to the user; user can add their favourite videos into the custom list. Major functionality implemented using Elasticsearch. Search has various options and filters with suggestion and search completion as well. Documents related to the video uploaded and users can view supported documents for the video. Using Ingestion plugin content-based search implemented. User can search their videos and documents using content based as well tag-based searches.

Roles and Responsibilities:

- ✓ Involved in Requirement Gathering.
- ✓ Involved in the designing the database

- ✓ Involved in the Development functionalities and Pattern Analyse.

Shlok Information Systems India Pvt. Ltd.

Title : Vision System –Automated Car Parking System, USA
Team Size : 5
Technology : DotNet C#, Entity Framework, Aforge.net, LPR Software, VLC Library, WCF
Database : SQL Server 2012
IDE : Visual Studio 2015
Role : Analysis and Development
Description : Vision System is a utility for Automated Car Parking System to select appropriate slot for the vehicles entering into Parking System. It contains an interface which guides the driver to move steadily in the parking bay and place the vehicle exactly in the centre of the tray. This enables customers to pay rent as per size of the vehicle rather than paying for bigger slots. It facilitates both parking and retrieval of the vehicle. It obtains live streams from CCTV cameras which monitor the Tray from front, side and back of the bay. Processes the live streams using VLC library. Frames obtained from VLC are further processed using Aforge.net library to provide coordinates of the object in the frame.

Roles and Responsibilities:

- ✓ Involved in Requirement Gathering.
- ✓ Involved in the designing the database and application development
- ✓ Unit Testing

Declaration:

I am confident of my ability to work in a team. I hereby declare that the information furnished above is true to the best of my knowledge.

Date:

Station:

(R. Rajamanickam)