**Jayalakshmi Tumpala** .NET Full StackDeveloper

**Professional Experience**

* **11+ years of experience** in all aspects of product life cycle, including project development lead, requirements analysis, business modeling, technical design, development, identifying risks and creating mitigation plans, resolving project issues, implementation, and maintenance.
* Experience in creating software using **Microservices architecture, Cloud design patterns**, **Microservice design patterns and SOA**.
* Experience in creating software using technologies in Microsoft area: **C#,.Net, .Net Core,.Net 8.0, ASP .Net, React, MVC, Web API, LINQ, Entity Framework and Angular 17**with the knowledge of **SQL Server database**, Knowledge of an object programming and project patterns.
* Managing **SQL Server** 2019/2017/2014/2012/2008 and **Oracle 11g /19c** database design, including Schemas, Tables, Views, Indexes, Stored Procedures, User Defined Functions, Normalization, SSIS and SSRS.
* Proven ability in managing and optimizing databases, particularly skilled in working with SQL Server to handle large datasets efficiently
* Experience in creating applications using client-side technologies like HTML, CSS, JavaScript, React and GraphQL.
* Development experience on **logic apps, Azure functions, web jobs, Azure Search, Redis, App Insights, Azure SQL, Azure Data Factory, AAD, Blobs,** and **service bus**.
* Experience in creating test cases to improve the code quality.
* Subject Matter Expert, specializing in supplying end-to-end cloud solution expertise, to determine the best architecture and cloud services using Azure to meet the client’s requirements.
* Planning, designing & developing applications using **Azure IAAS, PAAS** services and migrating application to **Azure**.
* Automate infrastructure in **Azure** with **Azure DevOps.** Experience in using **TFS/VSTS and Microsoft Tools (Requirements, Defects, Source Control, CI, CD)** for modern application development.
* Hands-on Experience in both **Agile** and **waterfall-based** development environments and participating in **SCRUM** sessions.
* Experience in securing the Restful Web-APIS of the application using Token-based authentication methods like **JSON Web Tokens (JWT).**
* Experience with version control tools like **GitHub,Visual Studio** Team Services (**AzureDevOps**) and also responsible for merging, tagging, and conflict resolution in **GIT**.
* Demonstrated ability to collaborate effectively with cross-functional teams and departments, contributing to the successful achievement of common goals.
* Experienced in multiple domains like **Tax, Finance, Audit** and **Health care warehouse.**

**Technical Skills**

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| **Languages** | C#.Net, ASP.NET, ASP.NET MVC, ASP.NET Core 3.1/3.0/2.0/1.0, .Net Core 3.1/3.0/2.0/1.0, .Net Framework 4.8/4.7/4.6/4.5, ADO.Net, Web API, LINQ, Web Services and Entity Framework. |
| **Development Tools** | Microsoft Visual Studio 2022/2019/2017/2015/2012, Visual Studio Code, Source Tree. |
| **Web Development** | JavaScript, React JS, AJAX, CSS, HTML, ASP.Net MVC, CSS, Postman, Swagger, React and Angular 17. |
| **Operating System** | Windows 11/10 |
| **Database** | MS SQL Server 2008R2/2012/2014/2016/2017/2019, Oracle 11g/19c and Azure SQL. |
| **Servers** | IIS 10, 8.5, 8, Windows Server. |
| **Design Modeling** | OOPS, MVC, Singleton. |
| **Version Control** | TFS, Azure DevOps, GIT, VSS, GIT Hub. |
| **Cloud Services** | Microsoft Azure |
| **Services** | Web Services, Restful services, Web API, Micro-services. |
| **Reporting Tools** | SSRS, SSIS, Crystal Reports |

**Work History**

* March 2024 to Present in St of oh as **Senior Software Engineer**
* June – 2021 to January 2024 in LTIMindtree as **Specialist – Software Engineering**
* Oct – 2019 to June – 2021 in Randstad India Pvt. Ltd as **Senior Software Engineer**
* Dec – 2012 to Sept – 2019 Anahcolus IT Solutions Pvt. Ltd as **Software Engineer**

**Projects**

**Project #7: PACE March 2024 – Present**

**Client:State of Ohio- Department of Aging**

**Description:**

The **Program of All-Inclusive Care for the Elderly (PACE) Project** is designed to provide comprehensive medical and social services to frail, elderly individuals who qualify for nursing home care but prefer to remain in their communities. The project aims to deliver a coordinated and holistic approach to healthcare, integrating preventive, primary, acute, and long-term services. The core goal is to improve the quality of life for participants by addressing their physical, emotional, and social needs through a multidisciplinary care team, including physicians, nurses, social workers, and therapists.

Key components of the PACE Project include:

* **Comprehensive Care**: Offering a range of services such as primary care, hospital visits, prescription medications, rehabilitative therapies, and personal care assistance.
* **Interdisciplinary Care Team**: A team of healthcare professionals collaborates to create and manage individualized care plans for participants.
* **Community-Based**: Focus on allowing seniors to live independently in their own homes for as long as possible while providing access to a PACE center for day services and care.
* **Capitated Payment Model**: Funded through a blend of Medicare, Medicaid, and private payments, PACE operates under a fixed payment structure to manage participant care cost-effectively.
* **Eligibility and Enrollment**: Tailored for individuals aged 55 or older who live in a PACE service area and meet nursing home level care criteria.

 **Responsibilities:**

* Provide technical leadership to the development team, guiding them on best practices.
* Ensure the system design is scalable, secure, and compliant with healthcare standards
* Design the overall software architecture to support the PACE program's needs.
* Develop and maintain the user interfaces (UI) for healthcare staff, administrators, and participants.
* Collaborate with the UX/UI designer to implement design prototypes that support ease of use for elderly participants and their caregivers.
* Develop and maintain the core functionalities of the PACE system, including participant management, scheduling, and billing.
* Implement APIs for integration with healthcare systems, databases, and external services (e.g., EHRs, Medicare/Medicaid billing).
* Ensure secure data storage and transmission, adhering to healthcare privacy regulations.
* Implement business logic that supports the coordination of healthcare teams, treatment plans, and participant records.
* Work on both frontend and backend aspects of the PACE project, developing and maintaining end-to-end software solutions.
* Ensure smooth communication between the user interface and backend systems.
* Optimize performance to support real-time data flow between care teams and administrators.
* Participate in the development of participant-facing applications that integrate healthcare Services.

**Environment*:***C#,.Net8,WEB API, .Net Framework, Microservices, Angular 17, Restful web services, Web API’s Visual Studio 2022, GIT, GIT Hub, Azure, Oracle SQL developer(11g&19C) CI/CD, Agile, Swagger and Postman.

**Project #6: GEM (Global Engagement Management) Jan 2023 –Jan 2024**

**Client: Ernst & Young (EY).**

**Description:**

The GEM Project is being developed for the integration and effective utilization of Mercury data—an essential upstream system. The primary objective was to streamline client Opportunities and Engagements within the GEM framework, enhancing overall project efficiency and client interactions. The project entailed meticulous planning, robust data processing, and the implementation of health check mechanisms.

**Responsibilities:**

* Orchestrating the planning, design, and development phases of applications, employing Microservices Architecture to ensure scalability and efficiency.
* Developing Microservices utilizing cutting-edge technologies, including .Net 6, C#.Net, SQL, .Net Core, Entity Framework Core, Web API, and seamlessly integrating Azure resources such as Function App, App Services, Key Vaults, Azure Search, Redis Cache, and Azure Storage Blobs.
* Implementing Agile methodology to drive product delivery, utilizing estimate techniques like planning poker for accurate project timelines.
* Ensuring application performance and health by actively monitoring using Application Insights, thereby facilitating proactive issue resolution.
* Utilizing Visual Studio 2019/2022 as the primary development environment, harnessing its capabilities for effective coding and debugging.
* Leveraging GitHub for version control and collaborative development, ensuring seamless collaboration among team members and version tracking.
* Contributed to code reviews, ensuring adherence to coding standards and best practices for enhanced code quality.
* Played a pivotal role in unit testing of the framework, validating the functionality of individual components and ensuring robust software performance.
* Created and deployed a resilient solution for handling button change events by harnessing SignalR technology. This implementation ensures seamless updates without the need for a browser refresh, enhancing user experience and real-time responsiveness.

**Environment*:***C#, ASP.NET Core, .Net 6, WEB API, .Net Framework, Microservices, JavaScript, Restful web services, Web API’s Visual Studio 2022, GIT, GIT Hub, Azure, MS SQL Server Management Studios 2019, CI/CD, Agile, Swagger and React.

**Project #5: EYMP (EY Mobility Pathway) July 2021 - Dec 2022**

**Client: Ernst & Young (EY)**

**Description:**

EYMP, a comprehensive suite of software solutions, is designed to empower EY Mobility Advisors and corporate clients in efficiently managing risk and conducting accurate tax calculations for their traveling employees. The ongoing modernization initiative primarily focuses on enhancing the "Core" application, aligning with Microsoft's requirements, with the MVP Release marking a significant milestone in the evolution of the EYMP platform. This strategic effort ensures that the software remains at the forefront of technology, delivering optimal support for mobility-related processes and maintaining compliance in an ever-evolving business landscape.

**Responsibilities:**

* Active involvement in deciphering business requirements and contributing to Scrum processes, ensuring alignment with project objectives and client expectations.
* Spearheading the development of user stories based on meticulous analysis of Acceptance Criteria, resulting in clear and comprehensive project requirements.
* Taking charge of documentation by consistently updating and creating Wikis, providing the team with current and accessible reference materials.
* Leading the creation of Azure ADF pipelines for the seamless migration of single-tenant clients into multitenant configurations, ensuring a smooth transition.
* Architecting and implementing database solutions, including stored procedures and other constructs, to optimize data retrieval and storage processes.
* Pioneering the development of Microservices using an advanced technology stack, encompassing .Net Core, C#.Net, SQL, Entity Framework Core, Web API, MVC, and a suite of Azure resources.
* Orchestrating the planning, design, and development of applications, leveraging Azure IAAS and PAAS services, and steering the migration of applications to the Azure platform.
* Harnessing the power of GraphQL to tailor and create bespoke queries for APIs, ensuring precision and flexibility in data retrieval to meet project-specific needs.

**Environment:**

Microsoft Visual Studio 2022, WEB API, .Net Core, Micro Services, SQL Server 2018, React and Azure

**Project #4: Tracker2 Dec 2020 -June 2021**

**Client: Deloitte**

**Description:**

Tracker2 is a workflow-based tool that supports service delivery to the clients and allow us to manage and track the provision of services. It allows us to provide structured and consistent services to the global clients by setting up a project for each service. It gives the ability to create and manage information about the individuals for whom you provide services and track details about their global mobility. Based on this, it manages Tax Return Projects, including Documents, Missing Information and Final Deliverables as part of the Tax Return process flow.

**Responsibilities:**

* Crafting detailed Requirement Specifications and creating Design Specifications to guide project development.
* Designing and developing business logic using C#, Dot Net Core, and Microservices Architecture to ensure optimal system performance.
* Implementing functionalities in accordance with Acceptance Criteria to meet project requirements.
* Creating essential queries and procedures in SQL for efficient data management.
* Addressing bugs promptly, fixing them as soon as they are reported to maintain software integrity.
* Preparing comprehensive Technical Design Documents for all project deliverables.
* Establishing Continuous Integration/Continuous Deployment (CI/CD) pipelines to automate code integration, testing, and deployment processes, ensuring swift and reliable software releases, and enhancing development efficiency.
* Demonstrating expertise in Agile software development methodologies and Test-Driven Development (TDD), including proficiency in the SCRUM framework.

**Environment:**

Microsoft Visual Studio 2019, WEB API, .Net Core, Micro Services, SQL Server 2018, SSRS, PEGA, Angular and Active MQ.

**Project #3: ROT (Rewards OnTrack) Oct 2019 – Nov 2020**

**Client: Deloitte**

**Description:**

On-Track is a customized and comprehensive solution designed for Professionals to efficiently monitor and oversee every facet of compliance reporting for employee benefits and programs. This innovative system enables seamless tracking and management of deadlines, while also providing real-time monitoring of the flow and status of Tax returns and Projects throughout the entire process, from preparation to delivery.

**Responsibilities:**

* Creating Requirement Specifications and Design Specifications to ensure a clear project roadmap.
* Designing and developing business logic, utilizing C# and Entity Framework Architecture.
* Executing the development of functionalities in alignment with the project plan.
* Crafting essential queries and procedures on SQL for effective data handling.
* Addressing and resolving bugs promptly upon identification or raised cases.
* Compiling comprehensive Technical Design Documents for all deliverables.
* Developing packages for extracting data from various sources (Excel files, Flat files, and OLEDB) to SQL Server using SSIS.
* Configuring and maintaining the use of Report Manager and Report Server for SSRS.
* Implementing Azure Automation to streamline routine maintenance and operational tasks, reducing manual effort and enhancing system reliability within the project.

**Environment:**

Microsoft Visual Studio 2017, WEB API, C#, Micro services, SQL Server 2016, SSRS, Angular 6, HTML, CSS, JQuery, .Net Core, ASP .Net. and Azure.

**Project #2: WMS&TMS June 2016 – Sept 2019**

**Client: Anahcolus IT Solutions Pvt. Ltd**

**Description:**

Warehouse Management System allows more efficiently and accurately process receipts, returns, put orders, picks, moves, issues, and counts by utilizing radio frequency transmission of data from a wireless scanner to this system. This process includes the major process like Purchase order, ASNs, Sales Orders, Transaction Management, Inventory Management and Customer portal.

**Responsibilities:**

* Analyzing specifications provided by clients to ensure a comprehensive understanding of project requirements.
* Addressing and resolving major technical issues to ensure the smooth progress of the project.
* Utilizing Visual Studio versions 2008, 2012, and 2014 for development tasks.
* Providing mentorship to team members to enhance their skills and contribute to project success.
* Developing tables, stored procedures, and joins using SQL Server.
* Overseeing the entire project lifecycle, including planning, execution, and delivery.
* Defining project scope, objectives, and deliverables in alignment with client expectations.
* Creating and managing project schedules and budgets to ensure timely and cost-effective completion.
* Coordinating effectively with the team and stakeholders to facilitate smooth collaboration and communication.
* Proactively identifying and resolving issues while implementing strategies to mitigate project risks.

**Environment:**

MVC, .NET Core, C#, ASP.NET, Web API, Entity Framework, SQL Server, Java Script, HTML, CSS and Azure.

**Project #1: Assist Jan 2013 – May 2016**

**Client: Anahcolus IT Solutions Pvt. Ltd.**

**Description:**

The Assist Project is dedicated to the development of an E-commerce Software Project tailored for supermarkets. This innovative solution is crafted to empower supermarket businesses in effectively overseeing their entire operation. From inventory management and order processing to customer transactions and sales, the software comprehensively streamlines various supermarket-related tasks. Its implementation is geared towards optimizing efficiency, ensuring accurate data management, and fostering a seamless operation within the supermarket environment.

**Responsibilities:**

* Develop a robust and scalable database structure to accommodate the needs of the E-commerce Software Project.
* Implement strategies to optimize the performance of the database, ensuring swift and efficient data retrieval and manipulation.
* Establish and maintain measures to guarantee data integrity, minimizing the risk of inconsistencies or errors within the database.
* Implement reliable backup and restore procedures to prevent data loss, ensuring the availability of up-to-date information in case of unforeseen events.
* Design and implement validation controls for input data to enforce data quality standards and prevent errors or invalid entries.
* Contribute to the development of robust business logic in alignment with project requirements, ensuring the software functions seamlessly and efficiently.
* Develop software functionalities as per the project plan, adhering to specifications and user requirements.
* Address and resolve bugs promptly, ensuring a responsive approach to fixing issues raised during the development and testing phases.
* Maintain consistency in the development process by adhering to the established plan, facilitating a structured and organized approach to project implementation.

**Environment:**

C#, .Net, ASP.Net, Web Services, MVC, .NET Core, Web API, ADO.NET, Entity Framework, SQL Server, Java Script, HTML, CSS, WCF, ADO.NET

**Educational Qualifications**

* **B. Tech in Computer Science & Engineering** with 75.6% from JNTUK in 2012.