

Mallika Raavi
Sr Full Stack .Net Developer

Phone: +1 (346)-6430-843

Email: mallika.raavi89@gmail.com

Professional Summary:

Around 11 years of experience in the **Software Development Life Cycle (SDLC)**, covering Analysis, Design, Testing and implementation.

Proficient in developing **Web and Client-Server Applications** using **Microsoft .NET Technologies**, implementing **N-Tier Architecture** with **.NET Core and .Net cloud** platform.

Accomplished in languages like **C#, .NET Framework, ASP.NET 4.8, ASP.NET Web API, ADO.NET, .NET Core, Microsoft Azure, MySQL, PL/SQL, T-SQL, XML**, and other essential languages for application development.

Skilled in creating interactive user interfaces using **HTML, HTML5/4.0, CSS, JavaScript, TypeScript, Bootstrap, jQuery, and AJAX**.

Adept in utilizing front-end frameworks like **Angular, React, and Vue.js** to build interactive and dynamic **user interfaces**.

Experienced in implementing various architecture patterns such as **MVC, MVVM, Service Oriented Architecture (SOA), Microservices, OOPS, N-tier applications, and Windows Services** for modular and maintainable code.

Developed web applications using **ASP.NET Web Forms, ASP.NET MVC, and ASP.NET Web API frameworks** to meet diverse project requirements.

Utilized **ORM frameworks** like **Entity Framework, NHibernate, LINQ, and Dapper** for efficient data access and management.

Proficient in working with a variety of databases including **Microsoft SQL Server 2019, Microsoft SQL Server 2016, SQL Express, MS Access, MongoDB, Cosmos DB, MySQL, and Oracle**.

Skilled in developing **SOAP and RESTful APIs** to ensure seamless integration and communication between systems.

Extensive experience in Microsoft Azure services like **Web Apps, Function Apps, App Insights, Cosmos DB, SQL Azure, Storage, Microservices, Service Fabric, and Logic Apps**.

Generated comprehensive reports using **Crystal Reports, Microsoft RDLC reports, and Telerik Reports**.

Proficient in **SQL Server Reporting Services (SSRS)** and **SQL Server Integration Services (SSIS)** for comprehensive data reporting and integration solutions. Skilled in cloud technologies including **Azure and AWS** for building scalable and resilient applications.

Developed ASP.NET web applications using **C# and ASP.NET Core framework**, ensuring compatibility from **.NET 1.1** to the current version. Implemented SQL Server database interactions within **ASP.NET** applications using **SQL Procedures, Functions, Tables, Views, etc.** Integrated third-party APIs using **ASP.NET Web API** for data exchange and integration with external systems.

Demonstrated expertise in **C#, ASP.NET, SQL, and .NET Framework** across various projects, ensuring compatibility and leveraging the latest features. Proficient in **WinForms development, Azure deployment, and Microsoft SQL Server**, with a focus on enterprise data modeling and optimization.

Implemented **Kafka** for real-time data processing in a high-throughput financial trading platform, utilizing topics and partitions efficiently. Integrated **Kafka Connect** for **data ingestion** and **Kafka Streams** for real-time analytics. Configured fault-tolerant **Kafka brokers** for scalability, ensuring low-latency data delivery and handling peak trading loads.

Experienced in **AGILE Scrum, Waterfall/JIRA, Kanban, and Test-driven development (TDD)** methodologies for effective project management.

Managed and maintained **Microsoft SQL Server** databases from **SQL 2000 to SQL 2018**, including database schema design, stored procedures, functions, and views. Optimized **SQL queries** and database performance to ensure efficient data retrieval and manipulation.

Proficient in utilizing **ETL (Extract, Transform, Load)** tools such as **Informatica PowerCenter, Talend, and Microsoft SQL Server Integration Services (SSIS)** to automate data extraction, transformation, and loading processes, ensuring efficient data integration and management within software applications.

Experienced in working with **middleware technologies** like **Apache Kafka, IBM MQ, and MuleSoft** to facilitate communication and data exchange between distributed systems, ensuring seamless integration and interoperability across heterogeneous environments.

Skilled in leveraging **Azure Cloud services** such as **Azure Functions, Azure App Service, Azure Cosmos DB, Azure Storage, Azure Microservices, Azure Service Fabric, Azure Logic Apps, Azure Web Apps, Azure Kubernetes Service, Azure IoT Hub, Azure Service Bus and/or Event Hub, Cosmos DB and/or PostgreSQL, Azure Serverless Functions, Azure Kubernetes Service, and Azure SQL Database** for building scalable, reliable, and secure cloud-native applications with high availability and performance.

Technical Skills:

Programming Languages	<i>C#, UAL C#.Net, ASP.NET 4.8, DOT NET Core, ADO.NET, LINQ, VB.NET, C, Java, Python.</i>
Front-end frameworks	<i>HTML5, CSS3, JavaScript, TypeScript, XML, jQuery, React, Angular,Next.js, Vue.js Blazer, Razor.</i>
Web technologies	<i>ASP.NET MVC, ASP.NET Web API, Entity Framework, ASP.NET Web Forms, WPF, WCF and Microservices, SOAP, RESTful APIs, ReactJS.</i>
ORM Frameworks	<i>Entity Framework, NHibernate, Dapper.</i>
Databases	<i>Microsoft SQL Server 2019/2016, PL/SQL, SQL Express, MS Access, MongoDB, Oracle.</i>
Reporting Tools	<i>Crystal Reports, Microsoft RDLC reports, Telerik Reports.</i>
Azure DevOps	<i>Docker, Kubernetes, and Jenkins</i>
Cloud Technologies	<i>Microsoft Azure, AWS.</i>
Testing Frameworks	<i>NUnit, XUnit, MS Test, Moq, Selenium.</i>
Build and Deployment Tools	<i>MS Build, Jenkins, TeamCity, Octopus.</i>
Version controls	<i>GIT, TFS and Bitbucket.</i>
Security Frameworks	<i>OAuth, JWT, Identity Server.</i>
Tools	<i>Visual Studio, Visual Studio Code, Microsoft SQL Server Management Studio</i>

Professional Experience:

Client: Fidx, USA.

January 2024 to Till Date

Role: Sr Full Stack .Net Developer

Responsibilities:

Collaborated with cross-functional teams to design, develop, and maintain banking applications using C#, .NET Core, and ASP.NET. Implemented features and functionalities related to online banking, account management, transaction processing, and customer data management.

Designed and implemented responsive and user-friendly frontend interfaces using Angular 17, enhancing the usability and accessibility of the application across various devices. Upgraded the application from Angular 15 to Angular 17 to leverage new features like standalone components, improved performance with Signals, and enhanced developer experience with better type checking.

Utilized Apache Kafka to enable real-time transaction processing by streaming financial data between microservices, ensuring low-latency updates for account balances and fraud detection systems. Configured Kafka topics and partitions to handle high throughput banking transactions, achieving scalability and fault tolerance.

Developed backend services, APIs, and business logic using C# and .NET framework, enabling seamless data integration and efficient transaction processing.

Built server-side logic using C#, ADO.NET and used ASP.NET MVC for building web applications with Model-View-Controller (MVC) architecture.

Integrated applications with relational databases such as SQL Server, ensuring efficient data storage, retrieval, and manipulation while maintaining data integrity and security.

Utilized SQL queries and stored procedures to extract relevant financial data for reporting and analysis, contributing to informed decision-making.

Demonstrated expertise in optimizing application performance and improving code quality through unit testing, debugging, and performance profiling.

Strong problem-solving skills and a proactive approach to troubleshooting technical issues, ensuring timely resolution and minimal disruption to the user experience.

Used ASP.NET Server controls, User Controls, HTML server controls and custom validation controls for client-side and server-side validation.

Designed and Implemented Data Access Layer (DAL) using ADO.NET to communicate with SQL Server 2016 and used ADO.Net connection objects like SQL Connection, SQL Command and SQL Data Adapter to execute stored procedures.

Gave authentication using different methods such as NTLM, Kerberos, and OAuth

Collaborative team player with excellent communication skills, adept at working in cross-functional teams and contributing to a positive and dynamic work environment.

Implemented a responsive User Interface using Angular 15, improving user experience and accessibility across various devices.

Employed Angular Material, a UI component library for Angular, to implement Material Design components and enhance the visual appeal and usability of the applications. Angular Material provides a set of pre-built UI components following Google's Material Design guidelines, enabling the creation of consistent and responsive interfaces across different devices and screen sizes.

Implemented real-time e-commerce tracking using Universal Analytics libraries in C#/.NET, enabling immediate monitoring of online sales, revenue, and transaction data for informed decision-making and optimization of e-commerce strategies.

Universal Analytics libraries in C#/.NET to track user interactions in real-time and dynamically personalize website or application content based on user behavior, resulting in improved engagement and conversion rates.

Familiarity with using DI containers like Microsoft's built-in DI or third-party libraries for managing application dependencies.

Deployed microservices using Azure Kubernetes Service (AKS) for scalability

Conducted regular code reviews and implemented coding best practices to ensure high-quality and maintainable codebase, fostering a collaborative and learning-oriented environment within the development team.

Implemented multi-factor authentication (MFA) and encryption mechanisms to enhance the security of sensitive financial data, ensuring compliance with industry regulations and protecting customer information from unauthorized access.

Designed and deployed solutions using various Azure Integration services, including Azure Functions, API Management, and Application Insights. Implemented continuous integration and continuous deployment (CI/CD) pipelines using Azure DevOps and Terraform, automating builds, tests, and deployments.

Implemented logging and monitoring solutions, such as ELK stack or Azure Monitor, to track application performance, identify issues, and facilitate proactive troubleshooting.

Implemented GraphQL endpoints for efficient and flexible data querying and manipulation, providing a unified interface for accessing and modifying data across multiple banking applications and services.

Environment: Microsoft Visual Studio 2017, C#, UAL C#.NET, .Net Framework 4.6, Next.js, Web Forms, ASP.NET, Typescript, ADO.NET, IIS, JavaScript, AJAX, Express.js, grid controls, Node.js, Web Services, Angular 17, Enterprise library, T-SQL, XML, SQL Server 2016, Apache Kafka, Bootstrap, CSS, HTML, Microsoft RDLC reporting tool.

Client: Microsoft, USA

August 2021 to November 2023

Role: Full Stack .Net Developer

Responsibilities:

Led a cross-functional development team, actively participating in Agile ceremonies such as sprint planning, daily stand-ups, sprint reviews, and retrospectives.

Designed and created a scalable web application using the latest technologies and frameworks, including .NET Core, C#, ASP.NET, and Entity Framework Core.

Collaborated with cross-functional teams to design and execute RESTful APIs/SOAP, enabling smooth integration between frontend and backend systems.

Designed data pipelines using SSIS for efficient data engineering and integration.

Conducted performance tuning and optimization of SSIS packages to improve data processing efficiency and reduce overall load times. Provided technical expertise and guidance to junior team members on SSIS best practices, performance optimization techniques, and troubleshooting strategies.

Strong understanding of modern web development practices, including server-side rendering (SSR) and client-side hydration for optimized performance and SEO. Proven ability to architect full-stack applications, integrating frontend and backend components cohesively to deliver feature-rich user experiences.

Developed and maintained SSIS packages to automate data migration tasks, ensuring data accuracy, consistency, and timeliness for financial reporting purposes.

Implemented error handling and logging mechanisms within SSIS packages to track data quality issues and facilitate troubleshooting and resolution.

Developed responsive and user-friendly front-end interfaces with HTML5, CSS3, JavaScript, and frameworks like Bootstrap.

Managed the database layer using Microsoft SQL Server, PL/SQL, involving the creation of complex queries, stored procedures, and triggers.

Conducted real-time A/B tests using Universal Analytics libraries in C#/.NET to evaluate the performance of different website or application variations, enabling data-driven decision-making and continuous improvement.

Implemented authentication and authorization mechanisms to ensure secure user access, incorporating technologies such as JWT (JSON Web Tokens) and OAuth.

Integrated Apache Kafka for real-time data streaming between pharmaceutical data systems, enabling efficient data ingestion from various sources for analytics and reporting. Used Kafka Connect to integrate with SQL Server and Kafka Streams for processing data pipelines, ensuring timely availability of data for financial reporting.

Successfully integrated React frontend with ASP.NET Core backend to develop full-stack web applications. Implemented RESTful APIs using ASP.NET Core Web API, facilitating communication between React frontend and backend services.

Leveraged technologies like Axios or Fetch API for asynchronous data fetching and posting, enabling interaction between React components and server-side logic.

Leveraged React to develop modern, interactive Single Page Applications (SPAs) that provide a seamless user experience.

Utilized React's component-based architecture to modularize UI elements, enhancing code reusability and maintainability.

Implemented state management using React Hooks and Redux, ensuring efficient data flow and consistent application behavior.

Managed the database layer using Microsoft SQL Server and PL/SQL, optimizing database operations, and addressing performance bottlenecks to ensure seamless application performance.

Utilized Amazon Web Services (AWS) to deploy and manage scalable and reliable web applications in a cloud environment.

Designed and developed serverless components using AWS Lambda and API Gateway, optimizing resource utilization, and enabling cost-efficient execution of backend services.

Implemented event-driven architecture using AWS Lambda to handle asynchronous processing, such as notifications and data processing.

Utilized AWS managed databases such as Amazon RDS (Relational Database Service) or Amazon DynamoDB to store and retrieve application data securely and efficiently.

Implemented CI/CD pipelines using AWS Code Pipeline and AWS Code Deploy to automate the build, test, and project management planning and tracking the migration project and deployment process of .NET applications.

Implemented robust logging and monitoring solutions, such as AWS CloudWatch or ELK stack, to monitor application performance, detect issues, and facilitate timely troubleshooting and resolution.

Collaborated with cross-functional teams to design and execute RESTful APIs, enabling smooth integration between frontend and backend systems. Implemented JWT (JSON Web Tokens) and OAuth for secure user authentication and authorization, ensuring data security and compliance with industry standards.

Environment: Microsoft Visual Studio 2019, C#, UAL C#.NET, Next.js, ASP.NET Core, ASP.NET 4.8, ASP.NET Web API, SQL, Entity Framework, SQL Server Integration Services (SSIS), SQL Server, Oracle, MySQL, T-SQL, Node.js, React, Data Warehousing, ETL Processes, Performance Tuning,Type script, JavaScript, HTML5, CSS3, , JWT, OAuth, AWS, Microsoft SQL Server 2022, Apache Kafka, Git, Express.js, DevOps, Docker, N Unit, Agile, Postman and GitHub

Client: State Of Utah, Utah

January 2019 to July 2021

Role: Full Stack .Net Developer

Responsibilities:

Designed, developed, and maintained. NET-based healthcare applications that facilitated patient data management, appointment scheduling, and medical record retrieval.

Collaborated closely with healthcare domain experts to gather requirements and ensure that the applications met industry standards for data security and privacy.

Integrated electronic health record (EHR) systems with custom applications, enabling seamless exchange of patient data between different healthcare systems while ensuring data accuracy and compliance with HL7 standards.

Implemented data mapping and transformation processes to normalize and structure incoming EHR data for efficient storage and retrieval.

Created responsive and user-friendly front-end interfaces using Angular 9, HTML5, CSS3, and JavaScript and TypeScript frameworks, enhancing the user experience and accessibility of web applications.

Developed RESTful APIs using ASP.NET Web API to expose data and functionality to other healthcare systems, enabling interoperability and enabling the development of third-party integrations. Implemented version controlling using TFS.

Developed C#/.NET scripts to integrate Universal Analytics libraries and track the performance of online marketing campaigns in real-time, allowing for timely adjustments to campaign strategies to maximize ROI.

Designed and maintained the database schema using Microsoft SQL Server, ensuring efficient storage and retrieval of patient data while adhering to data integrity constraints.

Identified and resolved software defects by conducting thorough debugging and root cause analysis, ensuring a stable and reliable healthcare application environment.

Collaborated with the company's compliance team to ensure that the healthcare applications adhered to industry regulations and guidelines.

Engineered cross-domain tracking solutions using Universal Analytics libraries in C#/.NET to accurately monitor user interactions across multiple domains or subdomains in real-time, providing a comprehensive view of user journeys and behaviors.

Participated in Agile/Scrum, methodologies, attending daily stand-up meetings, sprint planning, and retrospective sessions to ensure efficient collaboration and timely delivery of features.

Used N-Tier Architecture having Business Logic Layer (C#.NET), Presentation Layer and Database Layer (Database Connection and Security Settings).

Engaged in unit testing and integration testing using Angular's built-in testing utilities such as Testbed, Jasmine, and Karma. Angular's testing utilities allow for comprehensive testing of Angular components, services, and other features, ensuring the reliability and stability of the applications.

Utilized Angular's dependency injection framework to manage services and ensure modular, testable, and maintainable code.

Developed custom directives and pipes to extend Angular's functionality and facilitate reusable components across the application.

Implemented real-time data updates and dynamic content rendering in Angular applications using WebSockets and Observable patterns.

Designed and maintained cloud-native healthcare applications using Microsoft Azure, ensuring high availability and compliance with industry regulations.

Implemented Azure Active Directory for secure authentication and authorization, enabling role-based access control and single sign-on capabilities.

Configured and managed Azure SQL Database for efficient and scalable database operations, optimizing performance and ensuring data integrity.

Developed and deployed APIs using Azure API Management, facilitating secure and scalable API interactions between healthcare systems.

Utilized FHIR (Fast Healthcare Interoperability Resources) standards for data exchange and interoperability, enabling seamless integration with external healthcare systems and facilitating standardized communication of healthcare information.

Implemented secure authentication and authorization mechanisms such as OAuth 2.0 to ensure that only authorized personnel could access sensitive patient data, enhancing the overall security posture of the healthcare applications.

Implemented asynchronous processing using background jobs and Apache Kafka to handle long-running tasks, such as batch processing of medical records or generating complex reports, without impacting the responsiveness of the healthcare applications.

Environment: Visual Studio 2015, SQL Server 2014, MVC 4.0, UAL C#.NET, C# with ASP.NET framework 4.0, Web API, unit test, Angular 9, Apache Kafka, Java Script, jQuery, XML, JSON, HTML, CSS, Bootstrap.js, HTML5, Media CSS, Microsoft RDLC reporting, Azure, ADO.NET.

Client: Costco, Dallas, TX.

September 2016 to December 2018

Role: .Net Developer

Responsibilities:

Successfully developed and maintained healthcare applications using VB.NET, contributing to the improvement of patient data management, appointment scheduling, and medical record retrieval processes.

Reviewing code work for accuracy and functionality. Carry out detailed analysis to understand client requirements and translate them into new application features.

Leveraged VB.NET for both front-end and back-end development, creating user-friendly interfaces with ASP.NET Web Forms for seamless user interaction and data manipulation.

Performing coding assignments. Scheduling the codes, processing them, and monitoring them as per technical design from the client's requirement.

Creating and implementing design plans, using reusable technology components, Designing, Developing, and implementing web applications with user-friendly interfaces and eye-catching designs using .NET 4.5.1 C#.

Utilized programming capabilities in Microsoft SQL Server and JavaScript and other libraries as needed.

Developing SQL stored procedures, using Cursors in stored procedures, functions, and triggers for developing back-end database structures required for web applications to maintain Real-time data integration.

Maintaining the Activity Logs. Implemented page-level error handling using Custom Error pages and Error logs.

Developing and designing different Summary reports and farmer survey reports using the Microsoft RDLC reporting for web applications.

Used Git to maintain the version of the files and took responsibility for doing the code merges and creating new branches and forks when new feature implementation started.

Developing Documentation using flowcharts, diagrams, codes, and comments throughout the Software Development Life Cycle (SDLC).

Experience in hosting websites in Windows servers and FileZilla applications. Implemented parameterized user defined functions, procedures, and invoking events.

AJAX based ASP.Net controls were also used to give a better Interface over the web. Integrated HL7 standards for healthcare data exchange, ensuring interoperability and compliance with industry regulations such as HIPAA, thereby facilitating seamless communication between healthcare systems.

Utilized Angular framework for UI development, leveraging its powerful features such as data binding, directives, and components. Angular enables the creation of dynamic and modular user interfaces, facilitating the development of single-page applications (SPAs) with enhanced performance and maintainability.

Implemented Angular components, services, and modules to build a modular and maintainable front-end architecture, ensuring high performance and scalability.

Utilized Angular Material to implement Material Design components, improving applications' visual appeal and usability.

Implemented role-based access control (RBAC) and authentication mechanisms to safeguard sensitive patient information, utilizing technologies like JWT (JSON Web Tokens) and OAuth for secure user authentication and authorization.

Conducted performance tuning and optimization of SQL queries and database indexes to improve application responsiveness and data retrieval efficiency, enhancing overall system performance.

Collaborated with healthcare professionals and stakeholders to gather feedback and requirements, ensuring alignment of the application features with industry standards and user needs.

Implemented automated testing frameworks such as NUnit or MS Test to conduct comprehensive unit tests and integration tests, ensuring the robustness and reliability of the healthcare applications.

Migrated on-premises applications to Microsoft Azure, achieving significant improvements in scalability, availability, and disaster recovery capabilities.

Utilized Azure Blob Storage for efficient and secure storage of large datasets, ensuring data durability and accessibility.

Implemented Azure Traffic Manager for high availability and load balancing of web applications, enhancing user experience and system reliability.

Employed Azure Data Factory for ETL processes, automating data extraction, transformation, and loading, ensuring data consistency and quality.

Implemented ETL processes using tools like Informatica PowerCenter and Talend to extract, transform, and load healthcare data from disparate sources into a centralized database, ensuring data accuracy and integrity for real-time reporting and analysis in healthcare applications.

Leveraged middleware technologies such as Apache Kafka and IBM MQ to enable real-time data streaming and message queuing between healthcare systems, facilitating seamless integration and communication for timely patient information exchange and decision-making.

Environment: .Net Framework 4.5.1, Visual Studio 2015, ASP.NET, ADO.NET, C#, SQL Server 2008, Ajax, CSS, XML, HTML, JavaScript, IIS 6.0, SSRS, Microsoft RDLC reporting, Azure, Apache Kafka, Validations, GIT, T-SQL, Bootstrap.

Client: Airtel, India.

July 2013 to October 2015

Role: Software Developer

Responsibilities:

Designed and developed Web Pages using **ASP.NET, C#.NET, HTML, JavaScript, AJAX, jQuery, CSS, and server controls.**

Responsible for coding, developing, and implementing applications in **C#.NET and ASP.NET CORE.**

Developed secure login interfaces with **ASP.NET Server controls.** Developed Custom Controls and User controls for reusable parts of the web pages using **C# with ASP.NET.**

Worked with **AJAX-enabled WCF services** using **C# and ASP.NET.** Implemented the functionality for the plugin using **C#, ASP.NET, MVC, WCF, and Entity Framework.**

Coding the presentation layer using **WPF** and service layer using **dev Express 16.2 and MVVM architecture.**

Used Validation Controls for corresponding validations required for business logic in Web Forms.

Responsible for testing, fixing bugs, and troubleshooting technical problems.

Modified applications according to the user's requirements. Help drive consistent development practices – tools, common components, and documentation using Agile methodologies.

Collaborated with stakeholders to gather and analyze requirements, ensuring alignment with project objectives and user needs.

Environment: HTML, CSS, jQuery, JavaScript, AJAX, ASP.NET, C#.Net, .Net Core, ASP.NET CORE, MVC, Win Forms, OOP, SOA, NUnit, SSRS, SSIS, SQL Server, T-SQL, XML, IIS 6.0.