**Manoj Kumar**

**Full Stack .NET Developer**

**Email:** [**kmanojkumarnet@gmail.com**](mailto:kmanojkumarnet@gmail.com) **| PH: (804) 215-6373**

**LinkedIn:** [**www.linkedin/manojkumar**](https://www.linkedin.com/in/kmanoj-kumar/)

# Professional Summary

* Over 10+ years of experience in analysis, design, development, and deployment of web application for client - server technologies, distributed and object-oriented programming in **N-tier architecture** with Microsoft technologies, following **Agile/Scrum** development methodologies.
* Comprehensive expertise in the entire Software Development Life Cycle **(SDLC)**, leveraging both **Waterfall** and **Agile methodologies** for high-quality software delivery.
* Proficient in optimizing backend services through advanced **C#** features like asynchronous programming, **multithreading**, Task Parallel Library **(TPL)**, and collections for enhanced responsiveness and scalability.
* Skilled in architecting and developing applications using **Onion architecture**, **MVC architecture**, **N-Tier architecture**, and **Microservices.**
* Proficient in .NET frameworks like **ASP.NET** **Core** **Web App**, **ASP.NET Core** **Web API**, Microservices, and **ASP.NET MVC**.
* Utilized **ORM** frameworks like **ADO.NET**, Entity Framework, and Entity Framework Core for seamless database interactions and **CRUD** operations.
* Implemented robust security measures including **OAuth2**, **SSL**, and **JWT** for secure communication and data protection.
* Proficient in front-end technologies like **Angular, TypeScript, AngularJS, HTML5, CSS3, JavaScript, Bootstrap, jQuery,** and **Ajax** for interactive and responsive user interfaces.
* Implemented static code analysis using tools like **SonarQube** to identify and rectify potential security vulnerabilities and coding issues.
* Developed and customized **Sitecore-based web applications**, leveraging Sitecore's content management and delivery capabilities for creating dynamic and personalized digital experiences.
* Utilized version control tools like **Git, SVN**, and **TFS** for collaborative development and effective source code management.
* Proficient in building tools like Visual Studio, **Visual Studio Code**, and **SQL Server Management** Studio for efficient development workflows and database management.
* Experienced in configuring and managing application servers and web servers like **IIS** and **Apache** **Tomcat** for optimal performance and security.
* Experienced in applying various design patterns such as **Singleton**, Factory Method, Abstract, Repository Pattern, **MVC**, **MVVM**, and Facade, and creating diagrams like use case diagrams for effective software design.
* Implemented message queues like **MSMQ**, **RabbitMQ**, and **Azure Service** Bus for reliable asynchronous communication between application components.
* Deployed testing tools like **Postman, SoapUI**, and **Swagger UI** for comprehensive **API testing**.
* Expertise in developing **RESTful API’s** and **SOAP Services**, integrating them with Client-Server Architecture for efficient communication and data exchange.
* Involved in writing application-level code to interact with **APIs**, Web Services using **JSON** and **XML**.
* Implemented **API Gateway** and API Management in **Azure Cloud** for secure and efficient API communication.
* Extensive experience in relational databases **(SQL Server, PostgreSQL) and NoSQL databases (MongoDB)**, including complex queries, **stored procedures**, functions, **triggers**, and optimization techniques.
* Designed **Graph QL** to build client applications by providing an intuitive and flexible syntax and system for describing their data requirements and interactions.
* Utilized testing frameworks like **Karma, Jasmine, N Unit, X Unit** and **JMeter**, Jest for user interface testing, and tools like **Cucumber** for web services automation.
* Familiar with cloud technologies like **AWS** and **Azure**, leveraging their services for scalable and resilient applications.
* Familiar with ticket/project management tools like **JIRA**, **Rally**, and **TFS** for tracking project progress, collaboration, and issue management.
* Experience in leveraging **Azure DevOps CI/CD** pipelines from a developer's standpoint for automated build, test, and deployment processes.
* Leveraged logging tools like **Log4Net** for efficient application logging, monitoring, and troubleshooting.
* Strong team player with excellent communication, problem-solving skills, and a passion for continuous learning and staying updated with the latest **.NET** **technologies** and best practices. Quick learner and adaptable to new challenges.
* Experience using Object Oriented Analysis Design **(OOAD)**, Object Oriented Programming **(OOPS)**.

# Technical Skills

**Programming** **Languages**: C, C#, C++, T-SQL, HTML5, T-SQL, PL/SQL, Java, Python

**Web Services:** Restful, Web API, WCF and SOAP

**Technologies and Frameworks**: Microsoft .NET framework, ASP.NET MVC, MVVM, MVS, ASP.NET, Web forms, VB.NET, .NET Blazor, AJAX, ASP, ASP.NET Core, .Net Core, Micro Services, Tensor Flow, IIS Web Server, WPF, WCF Services, XML Web Services

**Database Technologies**: MS Access, MS SQL Server, NO-SQL, Oracle 11g/10g/9i/8i, MySQL, PostgreSQL, Entity Framework, LINQ, LINQ to objects, ADO.NET, JSON

**UI Technologies**: HTML5, DHTML, bootstrap 3.0, typescript, CSS3, XML, JavaScript, Angular or Angular (multiple versions), React JS, Knockout JS, REDUX, jQuery, Node.js, VBScript, ASP, ADA, WCAG Compliance

**Design Tools and Languages**: UML, Figma, Visio 2016

**Cloud Technologies**: Microsoft Azure, AWS

**Reporting Tools**: Crystal Reports, SSRS Reports, Power BI, Telerik Reporting

**ETL Tools**: Microsoft SSIS

**Version control tools**: MS Team foundation server, GIT, Jira, Azure DevOps, AWS Code Pipeline

**Methodologies**: Agile, Scrum, DevOps

**Tools:** N-Unit, Karma, Visual Studio, Unit Test, Jasmine, Jenkins, Docker, Kubernetes

**Operating Systems:** XP/Vista/Windows 7/8/10/11

# Professional Experience

## Senior Full Stack .Net Developer | Sam’s Club, Scottsdale, AZ | Dec 2022 - Present

**Responsibilities:**

* Managed the complete Software Development Life Cycle **(SDLC)** following **Agile methodologies** for the Inventory Management System, from requirements gathering to deployment and maintenance.
* Designed and implemented a scalable and maintainable microservices architecture using **ASP.NET** Core **Web API** and **C#**, adhering to SOLID principles and architectural patterns such as Repository, Facade, and **MVVM**, ensuring modularity and flexibility in system design.
* Designed and developed custom **.NET** components and user controls using **ASP.NET** and **C#**, enhancing the extensibility and customization capabilities of the E-commerce Inventory Management System.
* Worked with **Bootstrap** Components which are written in Angular using **Angular-UI** components.
* Developed rich web user interfaces leveraging various technologies like **Angular**, **ASP.NET** Controls, and **Ajax** Control Toolkit, providing intuitive and interactive user experiences tasks.
* Integrated UI component libraries like **Material-UI**, **Ant Design**, and **Semantic UI** to expedite the development of visually appealing and responsive user interfaces, enhancing user experience and engagement.
* Developed Angular services and implemented dependency injection for efficient data management and communication between components, enhancing modularity and reusability.
* Involved in implementing the complete Application in the inbuilt **MVC Architecture** with Angular. Created Single Page Applications **(SPA)** which can bind data to specific views and synchronize data with server.
* Re-factored, re-architected, and enhanced an existing **Angular** application to follow strict **MVVM/MVC** pattern for improved source code maintenance.
* Styled the Web Forms using **HTML5**, **CSS3**, **Bootstrap**, Data tables, Font-Awesome, providing a modern and aesthetically pleasing user interface for inventory management tasks.
* Developed **RESTful APIs** for the operations **(CRUD)** using **Web API**, enforcing secure communication through **JWT-based** authentication and **OAuth 2.0**, ensuring data integrity and confidentiality.
* Used **Graph QL** for complete and understandable description of the data in our API, gives clients the power to ask for exactly what they need.
* Developed responsive and intuitive user interfaces using **Angular**, **ASP.NET** Controls, and **.NET Blazor**, adhering to **ADA** and **WCAG 2.1 Level AA** accessibility guidelines, ensuring usability for all users.
* Utilized **Entity Framework** **Core** with Code-First approach for data persistence, employing domain-driven design principles to model and map inventory entities to **SQL Server databases**, ensuring data consistency and reliability.
* Used **LINQ to SQL** as the data provider for communicating with SQL Server Database, facilitating efficient querying and manipulation of data.
* Using **ADO.NET** Entity Data Model in retrieving data using **LINQ to SQL** and LINQ to Objects with ASP.NET.
* Utilized **SSRS** **(SQL Server Reporting Services)** for report generation, designing and deploying reports for data analysis and visualization, enabling stakeholders to make informed decisions based on user insights.
* Used **WPF** and performed **XAML** programming for the e-commerce website, leveraging the power of **XAML** for building interactive and visually appealing user interfaces for inventory-related tasks.
* Performed database development tasks for **SQL Server**, including database design, developing stored procedures, views, and queries, ensuring efficient data retrieval and manipulation for operations.
* Utilized **Azure DevOps** for version control **(Azure Repos)**, Continuous Integration, and Continuous Deployment **(Azure Pipelines)**, incorporating **Docker** for containerization, ensuring streamlined development workflows and deployment processes.
* Leveraged **Azure Services** like App Service, Functions, Logic Apps, and Service Bus for serverless compute, workflow automation, and asynchronous event handling, enabling scalable and efficient processing for user experiences.
* Monitored **Azure resources**, configured role-based access controls, and optimized performance and resource utilization through **Azure Portal** and **PowerShell scripting**, ensuring reliability and efficiency.
* Building new web application with team of developers using **TFS, GIT Services, SourceTree**, Scrum Methodology, Branching, Pull Requests.
* Implemented robust unit testing frameworks such as **xUnit.net**, **Jest**, and **.NET Core DI** to validate the functionality and behaviour of management modules, reducing defects and ensuring software quality.
* Implemented **log4net** for comprehensive application logging and streamlined debugging processes, facilitating effective troubleshooting and issue resolution.
* Developed **Web Service** classes using **SOAP and REST** to communicate with legacy systems, facilitating interoperability and data exchange between the Management System and external systems.
* Implemented **Karma and Jasmine** for rigorous **Angular app testing** and utilized **JMeter** for web service performance testing, alongside **Cucumber** for automated testing, ensuring high-quality deliverables.
* Also Involved in **Testing, Debugging**, Maintenance and Enhancement of Project and code review of the Applications.

**Environment:** ASP.NET Core, C#, Angular, .NET Blazor, Entity Framework Core, Web API, SQL, WPF, XAML, GIT Services, Azure DevOps, Azure Repos, Azure Pipelines, Azure App Service, Azure Functions, Azure Logic Apps, Azure Service Bus, SSRS, ADO.NET, Graph QL, Mongo D JWT Authentication, OAuth 2.0, Material-UI, Ant Design, Semantic UI, HTML, CSS, xUnit.net, Jest, .NET Core DI, Karma, Jasmine, Cucumber, log4net, SOAP, SQL Server, Docker, JMeter, Microservices, RESTful APIs, ADA, WCAG 2.1 Compliance.

## Senior Full Stack .Net Developer | State of WI, Madison, WI | Mar 2021 - Nov 2022

**Responsibilities:**

* Involved in Technical Planning Process, architecture, and ER Diagram for the development life cycle before starting the project to have a clear vision and understanding of the full **SDLC** life cycle of the project.
* Worked on **MVC** frameworks like **Angular** for creating Single-Page Applications **(SPA)** using concepts like Dependency Injection, Promises, Services, Scope, Controllers and Directives.
* Crafted dynamic **ASPX** web pages using a sophisticated tech stack comprising **ASP.NET, C#.NET, XML, XSL/XSLT, HTML, and JavaScript**, enabling rich user experiences and seamless interactions.
* Designed and developed various abstract classes, interfaces, Master Pages**, CSS 3** classes to construct the business logic using C# .NET.
* Involved in designing and development of **WCF services** in **C# .NET** which communicate with the data base and render the data back to the client consuming the service.
* Implemented **Angular Controllers** to maintain each view data. Implemented Angular Service calls using Angular Factory
* Effectively used jQuery a concise JavaScript and Angular Library for traversing **HTML** document, event handling and **AJAX** interactions
* Architected and developed the Data Access Layer utilizing cutting-edge technologies such as **ADO.NET** commands, **SQL Data Reader**, and Dataset objects to facilitate efficient data retrieval from **SQL Server** databases.
* Developed the Data Access Layer utilizing **ADO.NET** commands, fetching data from **SQL Server** through Stored Procedures and views, employing **SQL Data Reader** and Dataset objects for efficient data retrieval.
* Leveraged Entity Framework and **LINQ** to streamline data access and manipulation, enhancing code maintainability and reducing development time.
* Engineered a robust **WCF Rest service**, leveraging advanced **JSON** techniques and **ASP.NET framework** functionalities to facilitate seamless communication between components.
* Demonstrated proficiency in designing and implementing **RESTful APIs** using **ASP.NET Web API** and **WCF**, facilitating seamless communication between front-end and back-end components.
* Extensive use of **Web Services, Web API, Query String** to expose the reports to facilitate the information sharing.
* Implementing generic PaaS deployment API for repackaging and deploying applications on **heterogeneous PaaS** platforms.
* Implemented robust authentication and authorization mechanisms using industry-standard protocols such as **OAuth** and **JSON Web Tokens (JWT)**, ensuring secure access to sensitive data and resources.
* Experience in writing database objects like Stored Procedures, **Functions, Triggers, PL/SQL** packages and Cursors for **Oracle, SQL Server, MySQL & Sybase databases**.
* Hands on experience in deploying applications to MS Azure Private Cloud and Good Experience in TFS Branching and Merging.
* Proficient in developing and deploying applications across various roles within the Windows Azure platform.
* Extreme proficiency in Cloud Computing embracing **Azure IaaS, PaaS** based offerings leveraging **Windows Azure, Agile** project management.
* Spearheaded the development of desktop applications leveraging **WPF, JavaScript,** and **View JS**, delivering intuitive and feature-rich user experiences.
* Leveraged **Telerik UI Controls** to deliver exceptional user interfaces, enhancing the visual appeal and usability of **WPF** and Silverlight applications.
* Implemented advanced reporting solutions using **SSAS and SSRS**, providing stakeholders with actionable insights and data-driven decision-making capabilities.
* Engineered scalable and maintainable systems utilizing advanced messaging technologies such as **RabbitMQ and Kafka**, enabling efficient communication and data exchange between disparate components.
* Utilized version control systems like **Git** and **SVN**, promoting collaborative development and maintaining a comprehensive history of code changes.
* Used **'TestNG'** for backend test cases and **'Jasmine' for Angular** test cases. build tasks to provide continuous automated builds based on polling the Git source control.
* Hands on Experience in using **Wireframes** and **Testing** and creating single page applications using **Angular**.
* Experienced in working on **DevOps /Agile** operations process and tools area (Code review, unit test automation, Build & Release automation Environment, Incident and Change Management) including various tools.

**Environment:** C#, ASP.NET, ASP.NET Web API, Angular, WCF, Visual Studio, Web Services, ADO.NET, Entity Framework, LINQ, SQL Server, Stored Procedures, Views, SQL Data Reader, Dataset, JSON, XML, XSL/XSLT, HTML, Azure Cloud, JavaScript, Ajax, Design Patterns, WPF, Silverlight, Telerik UI Controls, SSAS, SSRS, MongoDB, RabbitMQ, Kafka, View JS, OAuth, JSON Web Tokens (JWT), Git, SVN, N Unit, MS Test, Caching Strategies, Database Indexing, Query Optimization, MS Access, PL/SQL, OOPS, Oracle, MySQL, MS Project.

## Full Stack .Net Web Developer | Webster Bank, Waterbury, CT | Jan 2019 - Feb 2021

**Responsibilities:**

* Implemented projects using **ASP.NET, C#,** and Microsoft **SQL Server** as the backend database, showcasing expertise in the .NET ecosystem and relational database management.
* Led the development of Financial Systems **Microservices** using **.NET Framework, Web API, SQL Server, Swagger UI, Entity Framework**, and the FIS Financial Platform, showcasing expertise in designing and implementing scalable and efficient solutions for the financial domain.
* Involved in the creation of Web applications using ASP.NET with the Model-View-Controller **(MVC) framework**, following industry best practices for web development and promoting code organization and maintainability.
* Designed and implemented reusable **Angular libraries** and modules, promoting code reuse and modularization across multiple projects, resulting in faster development cycles and reduced maintenance overhead.
* Implemented complex user interfaces with dynamic data binding, event handling, and routing using **Angular's** built-in features and directives, ensuring seamless user experiences across various platforms and devices.
* Implemented a dynamically configurable Content Management System (CMS) application for Bank Public-facing websites using React.js, ASP.NET **Core Web API**, SQL Server, and **Kendo UI for React**, demonstrating proficiency in modern frontend and backend technologies.
* Actively participated in the development of the Global Banking Platform using .NET Microservices **(Web API), ASP.NET Core, React.js, Webpack, Kendo UI, SQL Server**, and other cutting-edge technologies, contributing to a robust and scalable solution for the banking industry.
* Designed and developed Single Page Applications (SPAs), implementing page events using React.js, **TypeScript, jQuery and HTML5, CSS** ensuring rich and interactive user experiences for modern web applications.
* Developed core products using the .NET platform, C#, ASP.NET, and called web services and APIs to fetch and populate data on the UI using React.js and **AJAX**, demonstrating proficiency in consuming and integrating **RESTful APIs** for data exchange.
* Demonstrated expertise in the latest versions of React.js, leveraging features such as **React Hooks, Context API**, and Material-UI for building robust and scalable frontend applications.
* Developed and consumed **WCF Web Services** to access data layer components, along with creating and deploying WCF services in the UI layer, demonstrating proficiency in service-oriented architectures and integration between different application layers.
* Implemented **RESTful APIs** using **ASP.NET** Core Web API, incorporating authentication and authorization mechanisms, data validation, and exception handling, ensuring secure and reliable API communication for robust and secure applications.
* Created various stored procedures for data retrieval and generating reports using SQL Reporting Services **(SSRS)**, and wrote **SQL queries** for database transactions using SQL Server, exhibiting strong database skills, and reporting capabilities.
* Participated in daily Scrum meetings, storytelling, and retrospective sessions with developers and Business Analysts, utilizing Team Foundation Server **(TFS)** hosted on AWS for task and bug tracking, fostering effective collaboration and adherence to Agile methodologies.
* Integrated **Sitecore** with third-party services and APIs, enhancing the functionality and capabilities of Sitecore-based applications.
* Managed AWS Lambda for serverless computing, improving scalability.
* Implemented AWS Code Pipeline to establish **CI/CD**, configured Jenkins pipelines for building and deploying.
* Utilized **AWS API** Gateway to efficiently manage and expose multiple reusable RESTful APIs developed using ASP.NET Web API. Worked on token-based authentication **(JWT)** and **SSO** using **OAuth 2.0**.
* Created icons, wireframes, and designs using Adobe Photoshop, Dreamweaver, and Adobe Illustrator, contributing to the visual appeal and user-friendly interfaces of applications.
* Leveraged **Agile** and **Kanban** methodologies, alongside **JIRA** and Confluence for task/bug tracking and technical documentation, ensuring efficient project management and comprehensive documentation.
* Implemented unit testing for **JavaScript** code using the **Jasmine** testing framework, ensuring code quality, **maintainability**, and adherence to best practices.

**Environment:** .NET Framework, ASP.NET, ASP.NET Core, ASP.NET Core Web API, ASP.NET MVC, C#, VB.NET, Web API, SQL Server, Entity Framework, Angular, Swagger UI, FIS Financial Platform, React JS, TypeScript, Kendo UI for React, Webpack, HTML, HTML5, SCSS, CSS, JavaScript, jQuery, AJAX, WCF, Visual Studio, Sitecore, Azure DevOps, Team Foundation Server (TFS), AWS, Adobe Dreamweaver, Adobe Illustrator, SQL Reporting Services (SSRS), PL/SQL, T-SQL, Jasmine, Agile, Scrum, Kanban, JIRA, Confluence.

## .Net Developer | Boston Capital Advisors, Boston, MA | Nov 2016 - Dec 2018

**Responsibilities:**

* Actively involved in all phases of the **Software Development Life Cycle (SDLC)**, including requirements gathering, analysis, design, development, testing, debugging, and deployment.
* Developed best practices for handling exceptions and errors in both **C# and VB.NET** and used code refactoring techniques to make code easier to read and update.
* Utilizes **C#** concurrency features multithreading, **async/await**, parallel processing to handle multiple requests efficiently. Caches frequently used data to minimize repeated calculations and boost **C# application** performance.
* Designed and developed a **VB.NET** Windows Application for searching files from a pile of folders and storing them into a central repository.
* Created User Control in **VB.NET** to make application code reusable and to give the same look and feel to the application.
* Developed and maintained web applications using **ASP.NET MVC** and **Web API**, integrating with third-party APIs and ensuring seamless user experiences.
* Implemented responsive and interactive user interfaces using **Angular, HTML, CSS,** and **JSON/XML** for data interchange.
* Utilized **Angular's** built-in directives like ng-model for two-way data binding between views and components.
* Implemented routing in Single Page Application using **Angular** provided Router module.
* Utilized **Cosmos DB** to store catalog data and implement event sourcing within order processing pipelines, enhancing data management and processing speed.
* Utilized dependency injection patterns **Singleton**, Scoped, and Transient to manage object lifetimes and dependencies within the application.
* Actively used cursors, functions and calling procedures from one package to another package and created dynamic SQL statements in **Oracle** using **PL/SQL** and **ADO.Net**.
* Contributed to the development of microservices using **ASP.NET Web API**, facilitating scalability and maintainability of the overall system.
* Developed several **SOAP and REST API** based internal tools to enhance quality and performance of existing code base.
* Enhance performance of slow running queries and ensure optimal **SQL Server** performance with each release of Enterprise.
* Excellent working knowledge of **Oracle PL/SQL** development which includes creating Database Tables, indexes, and triggers, writing oracle package and procedures, Functions, Cursors, Views, and performance tuning.
* Designed and developed the interface for uploading/downloading the Data to/from **Oracle Database**.
* Developed and executed comprehensive unit and integration test suites using **N Unit** and **MOQ frameworks**, ensuring code reliability and maintainability.
* Mentored junior developers, sharing knowledge and best practices in **.NET** development, **object-oriented programming**, and software design patterns.
* Responsible for implementing logging and error handling, ensuring relevant information is captured, error messages are logged, and appropriate **HTTP status codes** are returned for meaningful client feedback.
* Utilized **Git** for version control and collaborated with team members through code reviews, ensuring adherence to coding standards, maintainability, and overall **code quality.**

**Environment:** C#, JavaScript, TypeScript, SQL, ASP.NET, Angular, Spring MVC, Spring Boot, Spring Cloud, HTML, CSS, JSON, XML, SQL Server, Cosmos DB, Web API, WCF, RESTful APIs, Visual Studio.

## Software Engineer | Apollo, Telangana, India | Jul 2014 - Aug 2016

**Responsibilities:**

* Actively involved in all phases of the **Software Development Life Cycle (SDLC)**, including requirements gathering, analysis, design, development, testing, debugging, and deployment.
* Extensively used **ASP.NET** controls like Grid View, Details View, Form View, Data List, and Repeater for clear data display.
* Extensive experience in creating user controls in ASP.NET to integrate data available through third-party **XML Web Services** to web pages using **C#**.
* Implemented front-end interfaces using **AngularJS**, **HTML**, **CSS**, **JSON**, and **XML**, creating responsive and user-friendly web applications with a focus on delivering an exceptional user experience.
* Implemented **AngularJS** provider injection to handle requests to **Web API** (Built factories to return RESTful services).
* Utilized **ADO.NET** objects such as **SQL Data Reader**, Dataset, and SQL Data Adapter for consistent access to SQL data sources.
* Created and modified **PL/SQL** packages, functions, stored procedures, and shell scripts for change requests to existing processes.
* Responsible for database design and creating stored procedures and triggers to perform data retrieval from multiple tables using **SQL Database**.
* Collaborated with team members to conduct code reviews, version control systems like **Git** or Team Foundation Server **(TFS)** for efficient source code management.
* Engaged in testing activities, including **unit testing** and integration testing, to validate software functionality, identify bugs, and ensure the reliability and robustness of the application.

**Environment:** MVC.NET, C#, SQL Server, ASP.NET Web Forms, ASP.NET AJAX, Angular, HTML, CSS, JSP, JavaScript, jQuery, Ajax, Kendo UI, ADO.NET, SQL Server, PL/SQL, JavaScript, AngularJS, C#, JavaScript, Visual Studio, Caching, PL/SQL, XML Web Services.

# Education

* Bachelor of Technology in Computer Science | Chalapathi Institute of Technology | Jun 2014.