

# Manohar Tumu

.Net Developer

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## Professional Summary

Experienced **.NET Developer** with around 5 years of expertise in designing, developing, and maintaining enterprise applications. Proficient in **.NET Core (ASP.NET Core, MVC, Web API, Entity Framework Core)**, front-end technologies (**HTML5, CSS3, JavaScript, Vue.js, Angular 9+**), and back-end development (**Node.js, REST/GraphQL APIs**). Skilled in cloud computing with **Azure** and **AWS**, microservices architecture, and big data technologies like **Spark** and **Kafka**. Demonstrated ability in **database management (SQL Server, MySQL, Oracle, NoSQL)** and reporting tools (**SSRS, Crystal Reports**). Strong experience with **Agile methodologies**, version control (**Git, TFS**), containerization (**Docker**), and **Azure DevOps** for **CI/CD** pipelines. Proven track record in delivering high-quality solutions, optimizing performance, and managing complex projects from conception to deployment.

## Education

- **Bachelor of Technologies in Computer Science | Sathyabama University, India**
- **Master of Science in Information Systems and Technology | University of Central Missouri, Missouri, USA**

## Technical Skills

- **Programming Languages:** C#.NET, VB.NET, SQL, T-SQL
- **.NET Technologies:** ASP.NET, ASP.NET MVC, Web API, Entity Framework (6.0), LINQ, WCF, MVVM, Blazor
- **Web Technologies:** HTML5, CSS3, JavaScript, jQuery, AngularJS, Bootstrap, AJAX, JSON, Vue.js
- **Back-End Development:** Node.js, REST-based APIs, GraphQL APIs, SignalR
- **Database Management:** SQL Server (2012/2008), MySQL, NoSQL Databases, Oracle (11g)
- **Big Data and Real-Time Data:** Spark, Kafka
- **Version Control:** Git, TFS (Team Foundation Server)
- **Cloud and Microservices:** AWS (EC2, S3, SNS, SQS), Azure (Azure Functions, Azure DevOps, CI/CD pipelines), Microservices Architecture
- **Automation and Scripting:** VBScript, XSLT, Jenkins, GitHub Actions
- **Testing Frameworks:** NUnit, XUnit, Moq, Selenium, Postman
- **Security Practices:** OAuth, JWT, SSL, data encryption, secure coding practices
- **Container Management:** Docker, Kubernetes (AKS)
- **Cloud Cost Optimization:** Scaling instances, resource optimization strategies
- **Agile Methodologies:** Scrum ceremonies, sprint planning, stand-ups, leading agile teams
- **Reporting Services:** Crystal Reports, SQL Server Reporting Services (SSRS)
- **Development Tools:** Microsoft Visual Studio (.NET 2015/2013), Docker, Kubernetes

## Professional Experience

**.NET Developer**

**Bank of America, Charlotte, NC**

**Jan 2022 – Present**

- Gathered requirements, designed systems, and developed applications using Agile methodologies. Managed project tasks and progress using **Jira** and **Kanban** boards.

- Developed user interfaces **with HTML5, CSS3, Bootstrap, jQuery, and Vue.js** for dynamic, responsive designs.
- Refactored legacy **JavaScript** code into **TypeScript** and integrated modern features using **Angular 9+**.
- Built **RESTful APIs** and developed web services using **ASP.NET Core**, handling customer service records.
- Integrated **GraphQL APIs** to improve data retrieval and responsiveness, fetching asynchronous data with **JSON**.
- Developed backend services using **Node.js**, implementing **Flux frameworks** and building a server for authentication management.
- Leveraged Azure Functions to implement serverless computing, deploying identity microservices using Azure App Service and managing cloud infrastructure with **Azure DevOps** CI/CD pipelines.
- Utilized Azure Blob Storage for data management and **Azure SQL** for relational database solutions.
- Integrated Azure Active Directory (AAD) for secure authentication and authorization in microservices architecture.
- Developed interactive web applications using **Blazor**, leveraging its component-based architecture to enhance development efficiency and maintainability.
- Implemented **SignalR** to enable real-time communication features, such as chat and notifications, providing users with instant updates and improving user engagement.
- Developed and maintained **CI/CD** pipelines using **Azure DevOps** and **GitHub Actions** for **.NET** applications, enhancing deployment efficiency and reducing manual intervention by **30%**.
- Integrated automated testing into the **CI/CD** process, ensuring code quality and compliance with development standards through robust testing frameworks.
- Automated build and deployment processes using **Jenkins**, enabling continuous integration and continuous deployment (**CI/CD**) across multiple environments.
- Managed real-time data processing with **Apache Kafka** and developed big data applications using **Apache Spark**.
- Ensured high performance by tuning **SQL queries**, stored procedures, and designing **NoSQL** databases.
- Used **Azure Kubernetes Service (AKS)** for container orchestration, managing containerized apps with **Docker**.
- Employed **TFS** and **Git** for version control and team collaboration.
- Led agile teams by actively participating in **Scrum ceremonies** (sprint planning, daily stand-ups), and utilized **Kanban** boards to improve workflow and address bottlenecks, ensuring timely delivery of project milestones

**Environment:** Visual Studio, TFS, Jira, C#, JavaScript, TypeScript, VBScript, HTML5, CSS3, Bootstrap, Vue.js, Angular 9+, ASP.NET Core, Node.js, Blazor, WCF, Flux Frameworks, REST Services, GraphQL APIs, Spark, Kafka, Azure Functions, Azure App Service, Azure Blob Storage, Azure SQL, AKS, AAD, Jenkins, EC2, S3, Docker, Git, RESTful Services, SOAP, JSON, XML

## **.NET Developer**

**Apollo Hospitals, India**

**June 2019 – July 2021**

- Collaborated with business analysts to create technical design and test specifications that aligned with business goals.
- Developed UI components using **ASP.NET Master Pages, jQuery, HTML, CSS**, and integrated authentication with Forms Authentication.
- Worked on **MVC Framework** and **ADO.NET** Entity Framework for back-end database connectivity.
- Built **WCF** services using REST for non-SOAP requests, and managed configuration activities with WCF Admin Service.
- Developed comprehensive unit tests using **XUnit** and **NUnit**, achieving **90%+** code coverage, and

utilized **Moq** for creating mock objects to isolate application logic. Conducted automated end-to-end **UI testing** using **Selenium** and performed **API testing** with **Postman** to ensure performance and reliability.

- Developed **SQL scripts, stored procedures**, and functions for data operations.
- Utilized Red Gate and **Visual Studio** performance profilers to optimize application performance.
- Implemented industry-standard security protocols like **OAuth** for user authentication and **JWT** for secure **API** access. Configured **SSL** certificates to protect data in transit and employed data encryption techniques to safeguard sensitive information.
- Used **Docker** for containerizing applications, ensuring consistent development and production environments. Managed **Kubernetes** (AKS) for automating deployment, scaling, and monitoring of containers to guarantee high availability.
- Integrated continuous integration and deployment pipelines using **Azure DevOps, GitHub Actions**, and **Jenkins**, automating the build and deployment processes for efficient delivery.
- Designed graphical interfaces using **Win Forms** and **WPF** for intuitive user interactions.
- Generated reports using **SSRS** for management and operational insights.
- Automated build processes using **Jenkins** for **continuous integration** and deployment, improving delivery time.
- Worked with **.NET Framework 3.5** and integrated **Silverlight** components for enhanced visual experiences.

**Environment:** C#, ASP.NET, .NET Framework 3.5, Visual Studio 2010, IIS 6.5, ADO.NET, VB.NET, MVC, WCF, SQL Server 2008R2, SSRS, Web Services, Silverlight, WPF, AngularJS, Entity Framework, jQuery, AJAX, JSON, CSS, Oracle 10g, SOAP, Jenkins.