

Ranadheer Reddy Musku

Senior Full Stack .NET Developer

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PROFESSIONAL SUMMARY:

- Experienced and results-oriented **Full Stack .NET Developer** with over **8 years** of expertise in building **scalable, high-performance enterprise applications** across **finance, healthcare, automotive, and government** sectors. Skilled in designing and developing modern applications using the **Microsoft technology stack** including **C#, .NET Core (2.0 to 8.0), ASP.NET MVC, Web API, and Entity Framework Core**. Proficient in developing **RESTful** and **GraphQL** services and integrating with external systems using secure authentication methods like **OAuth2, JWT, and API Keys**.
- Strong front-end development skills with **Angular 17, React.js, JavaScript, and TypeScript**, enabling delivery of **responsive, dynamic web applications** and **cross-platform user interfaces**. Proven ability to design **mobile-compatible applications** using **Razor Views** and **React Native**. Hands-on experience migrating enterprise mobile apps to **.NET MAUI** for **cross-platform iOS and Android compatibility**.
- Extensive experience working with complex databases including **SQL Server (2008–2022)** and **MongoDB**, with hands-on skills in writing **optimized queries, stored procedures, indexing, and performance tuning**.
- Specialized in **microservices architecture** and **API management** using **Kong API Gateway** with custom **Lua plugins** for **request transformation, rate limiting, and traffic control**. Adept at securing APIs, improving middleware communication, and managing **distributed services** using **Docker, Kubernetes, and CI/CD pipelines** with **Azure DevOps** and **GitHub Actions**.
- Demonstrated success in **modernizing legacy systems** and driving **cloud-native development** on **Azure** and **AWS** platforms. Hands-on experience with **Azure SQL, Azure App Services, Azure Storage, and Azure Monitor** to ensure **application scalability, availability, and security**. Built automated test suites using **NUnit, xUnit, and SpecFlow** for **unit, integration, and BDD testing**.
- Deep understanding of software design principles including **SOLID, Clean Architecture, and Dependency Injection**. Familiar with **Agile methodologies**, participating actively in **sprint planning, code reviews, and backlog grooming**.
- Domain expertise in **Capital Markets**, with hands-on experience in building real-time brokerage and investment platforms for retail and institutional investors.
- Proven ability to deliver **secure, efficient, and user-friendly solutions** in highly regulated industries such as **banking and healthcare**. Committed to **continuous learning, emerging technologies, and delivering innovative solutions** that align with business goals.

TECHNICAL SKILLS

Category	Technologies & Tools
Programming Languages	C#, VB.NET, SQL, Python, JavaScript, TypeScript, T-SQL
Frameworks & Technologies	.NET Core (2.0 – 8.0), ASP.NET MVC, ASP.NET Core, WCF, Web API, Razor Views, Entity Framework Core
Frontend & UI Development	Angular 17, React.js, React Native, Bootstrap, HTML5, CSS3.
API & Middleware	RESTful APIs, SOAP, GraphQL, gRPC, Kong API Gateway, Custom Kong Plugins (Lua scripting)
Databases	SQL Server (2008 – 2022), MySQL, MongoDB
Cloud & DevOps	Azure (App Services, Azure SQL, Storage, Azure AD, Monitor), AWS (EC2, S3, Lambda, RDS), Docker, Kubernetes, GitHub Actions, Azure DevOps.
Testing & QA	NUnit, xUnit, SpecFlow, TDD, BDD, Integration Testing, Unit Testing
Tools & Version Control	Git, GitHub, GitLab, Bitbucket, Visual Studio, VS Code, TFS, JIRA

Architecture & Patterns	Microservices, Clean Architecture, MVC, MVVM, SOLID Principles, Dependency Injection
Reporting & Analytics	SSRS, Power BI
Operating Systems	Windows, Windows Server, Linux (Ubuntu, CentOS)

Bank of America, Plano, Texas.
Senior .NET Core Developer

September 2025- Till Now

Project: Enterprise Data Governance & Outbound Data Control Platform

Internal application ensuring governance, validation, and authorization of all data leaving the bank across regulatory and business channels.

Responsibilities:

- Developed and enhanced core modules using .NET Core 6/7, ASP.NET MVC, and C# to support end-to-end outbound data governance workflows.
- Built RESTful APIs for policy enforcement, entitlement validation, and secure outbound data movement.
- Contributed to UI redesign work using ASP.NET MVC, Razor Views, and JavaScript/jQuery, improving usability for compliance teams.
- Implemented robust data validation and business rule execution within the MVC pipeline, ensuring accuracy before downstream transmission.
- Worked extensively with Oracle Database, writing PL/SQL procedures, packages, and queries to support outbound metadata, audit trails, and workflow state transitions.
- Used TOAD for Oracle for query tuning, schema analysis, execution plan optimization, and validating data migrations across environments.
- Improved performance of PL/SQL routines by optimizing indexing, reducing full table scans, and restructuring long-running outbound queries.
- Integrated .NET services with Oracle using OCI drivers and optimized data access patterns for high-volume, regulatory-critical workflows.
- Participated in Agile ceremonies, sprint planning, and collaborative design discussions with architects and business analysts.
- Supported production issues by analyzing logs, debugging service failures, and resolving Oracle-related performance bottlenecks.
- Maintained CI/CD workflows using Bitbucket and Jenkins, enabling repeatable deployments with automated validations.

Charles Schwab, Southlake, Texas
2025

November 2023 – September

Role: SR full Stack .Net Developer

Project: Capital Markets – Real-Time Brokerage and Investment Platform

Real-time trading, portfolio analytics, and transaction processing system for retail and institutional investors.

Responsibilities:

- Working on the development and modernization of a real-time brokerage and investment platform that supports trade execution, order management, portfolio tracking, and market data analytics. The system enables high-frequency trading workflows, performance reporting, and secure transaction processing for retail and institutional investors.
- Developed and optimized backend services using .NET Core to ensure high-performance financial data processing.
- Gained deep domain-level expertise in Capital Markets workflows, including trade execution, market data streaming, high-frequency trading integration, and portfolio analytics.
- Led modernization of a brokerage and investment platform with event-driven architecture and shared .NET libraries for scalability.

- Designed and implemented microservices to enable flexible, real-time processing of market data and investment transactions.
- Configured and maintained Kong API Gateway with custom Lua plugins for enhanced API security, traffic control, and request transformation.
- Implemented OAuth2, JWT, and API key-based authentication across APIs and gateway for secure, standards-compliant access control.
- Automated API and microservice deployments using Docker, Kubernetes, and Azure DevOps CI/CD pipelines.
- Monitored API usage and system performance using Prometheus, ELK Stack, and Kong logging to proactively detect and resolve issues.
- Participated in knowledge sessions on integrating trading data with cloud-based analytics using Amazon Redshift, supporting long-term reporting strategies and scalable data warehousing.
- Collaborated with cross-functional teams to explore Azure-based reporting solutions, including early-stage evaluation of Synapse pipelines for financial data insights.
- Built high-performance ASP.NET Web APIs and GraphQL endpoints, improving data throughput and reducing latency by 40%.
- Built scalable backend services using .NET Core 6/7 with clean architecture and dependency injection for modular service design.
- Integrated GitHub Actions for CI/CD pipelines, managing builds and deployments for containerized services on Azure Kubernetes Service (AKS).
- Implemented asynchronous processing using messaging queues (e.g., Azure Service Bus) for handling real-time trade execution and transaction logging.
- Configured Azure App Services, Azure SQL, and Azure Storage for secure, scalable financial services infrastructure.
- Enhanced front-end UI using Angular 16, aligning with Angular 12+ requirements for dynamic dashboard features.
- Tuned SQL Server performance through query optimization, indexing, and improved Entity Framework query strategies, achieving 30% faster data access.
- Designed and maintained dynamic, responsive UI components using Angular 16 and React.js for consistent cross-platform UX.
- Built reusable React components with lazy loading and code splitting to improve frontend performance and load times.
- Applied advanced validation techniques on client and server sides using JavaScript, jQuery, and ASP.NET MVC to ensure accurate, secure data handling.
- Integrated React Router and Angular routing for seamless single-page application navigation.
- Implemented comprehensive unit and integration tests using NUnit and xUnit to improve code quality and system stability.
- Managed application security by enforcing authentication and authorization best practices across services and UI layers.
- Leveraged Azure SQL, Azure Storage, and Kubernetes for scalable, cloud-native deployments with improved uptime and availability.
- Streamlined builds, releases, and deployments with Azure DevOps pipelines, improving deployment speed and consistency by 25%.
- Collaborated with business stakeholders in Agile Scrum ceremonies to refine requirements and deliver functional increments.
- Ensured enterprise-grade standards for performance, security, and scalability in financial applications through full-stack optimizations.

Wells Fargo, Bay Area-CA

December 2021 – October 2023

Role: SR full Stack .Net Developer

Project: Core Banking Modernization – Legacy Migration & API Enablement

Migrated legacy banking systems to modern services with secure APIs, database transitions, and performance improvements.

Responsibilities:

- Designed and developed web user interfaces using ASP.NET, C#, VB.NET, HTML, CSS, JavaScript, server controls, and AJAX Control Toolkit.

- Created custom web user controls and redesigned legacy applications using Clean Architecture for configurability and reusability.
- Improved DB2 database performance by optimizing SQL queries and indexing strategies, reducing query response time by 25%.
- Led successful data migration initiatives from legacy systems to DB2, ensuring data accuracy and integrity throughout the process.
- Wrote Python scripts to automate log parsing, system diagnostics, and regression test validations during post-migration phases.
- Used Python in CI/CD test workflows to simulate REST API behavior and verify transaction data consistency.
- Implemented data synchronization pipelines using IBM DataStage and SSIS to enable real-time reporting for business stakeholders.
- Developed and consumed RESTful APIs using ASP.NET Web API, cutting external integration time by 50%.
- Developed backend services using .NET Framework 4.5.1 and C# to support legacy applications and services migration.
- Applied dependency injection and repository pattern in .NET Core to simplify service testing and improve code maintainability.
- Integrated MySQL database for configuration and logging services alongside DB2, ensuring cross-database compatibility.
- Created CI/CD pipelines using GitHub and CruiseControl.NET for continuous deployment of internal apps to Azure environments.
- Built Angular components for admin and user dashboards, upgrading legacy interfaces to Angular 13 standards.
- Built internal tools with C# and ASP.NET MVC, integrating Telerik controls to enhance user interfaces for resource management.
- Applied JWT-based authentication to secure web applications and enforce role-based access control.
- Leveraged CruiseControl.NET for CI/CD, automating build, test, and deployment processes.
- Ensured application quality through extensive unit testing using NUnit and early-stage bug identification.
- Developed responsive UIs using Angular and JavaScript for modernized dashboards.
- Utilized Telerik Kendo UI to build user-friendly internal dashboards.
- Collaborated with UI/UX design teams to deliver feature-rich applications that aligned with user expectations and branding standards.
- Enhanced front-end performance using React with Redux, Recoil, and Context API for effective state management.
- Applied React performance optimizations including React.Memo, useMemo, and useCallback to minimize re-renders.
- Implemented debouncing and throttling techniques to handle high-frequency user input efficiently.
- Used ASP.NET MVC with JavaScript and HTML/CSS to design dynamic pages with strong user interaction.
- Configured and managed Azure services including VMs and Storage for cloud-hosted applications and deployments.
- Adopted a cloud-native approach to improve scalability, resource management, and maintenance via Azure.
- Maintained secure development practices by regularly monitoring authentication workflows and patching vulnerabilities.
- Built Python-based internal tools for test automation and data pipeline validation during DB2 migration.
- Used Python scripts to automate repetitive deployment tasks in Azure-hosted environments.

Info Brain Technologies, Hyderabad, India

January 2020- July 2021

Role: Full Stack .Net Developer

Project: Automotive Telemetry & Diagnostics – Cloud and Mobile Enablement

Developed connected car diagnostics and telemetry tools with real-time data ingestion and mobile dashboard features.

Responsibilities:

- Designed and developed core application logic using C#.NET and ASP.NET to support automotive and cross-platform features.
- Built responsive front-end components using ASP.NET MVC, Razor Views, AngularJS, and JavaScript for dynamic user interactions.
- Created RESTful APIs to enable seamless front-end and back-end communication, ensuring real-time data flow across systems.
- Integrated push notification functionality for delivering live updates on both web and mobile platforms.
- Enabled mobile compatibility using React Native and Xamarin to provide consistent cross-platform experiences.
- Led the migration of Xamarin-based applications to .NET MAUI, refactoring UI components, updating navigation stacks, and ensuring platform-specific compatibility for Android and iOS.
- Configured Visual Studio 2022 for MAUI development and streamlined CI/CD pipelines for mobile deployments.
- Implemented complex backend logic using .NET Core and ensured scalability with optimized service layering.
- Developed microservices using .NET Core and implemented DAPR sidecar communication for event-driven service orchestration.
- Utilized MySQL for configuration storage, telemetry, and live diagnostics integration from vehicle APIs.
- Developed Python automation scripts to ingest and validate vehicle telemetry data, triggering diagnostic alerts during live stream analysis.
- Built internal Python tools for log analysis and pre-deployment validation of mobile builds on Azure DevOps.
- Implemented Azure DevOps CI/CD pipelines and GitHub integration for secure and reliable deployments to Azure cloud.
- Employed dependency injection and SOLID principles to improve testing and modularity of service layers.
- Developed WCF web services for secure, real-time client-server communication.
- Crafted optimized SQL queries, stored procedures, indexes, and triggers in SQL Server 2014 for high-performance data operations.
- Managed DB2 databases on IBM z/OS and Linux, enabling reliable data access across enterprise systems.
- Built modular Spring Boot microservices to deliver banking functions and support third-party system integration.
- Conducted multithreaded development and stress testing to ensure application stability under heavy loads.
- Applied AJAX-based client-side validations to reduce server calls and enhance UI responsiveness.
- Utilized NUnit for comprehensive unit and integration testing, ensuring code reliability.
- Created custom AngularJS directives and services to build modular and reusable UI components.
- Developed consistent, mobile-friendly UIs using HTML5, CSS3, Bootstrap, and Kendo UI.
- Documented technical specs, support guides, and user manuals to streamline onboarding and maintenance.
- Delivered internal training on DB2 optimization strategies and best practices.
- Conducted performance audits and implemented Azure-hosted deployment optimizations with monitoring tools for proactive issue resolution.

Prodapt, Chennai-India

Jan 2019-Dec 2019

Role: .Net developer

Project: Enterprise Web Portal – Telecom Admin and Customer Operations

Developed reusable components and backend services for a telecom operations dashboard using ASP.NET MVC.

Responsibilities:

- Designed and developed scalable web application components using ASP.NET MVC and C#.
- Built reusable Razor views and partials to streamline UI rendering and maintain consistent layouts.
- Developed and consumed RESTful APIs to facilitate seamless communication between application layers.
- Wrote optimized T-SQL queries and stored procedures in SQL Server to handle large data sets efficiently.
- Implemented backend services and business logic using .NET Framework to support core application features.
- Conducted unit testing and debugging using Visual Studio and MSTest to ensure code quality and reliability.

- Performed database indexing, tuning, and maintenance tasks to improve performance and reduce query latency.
- Followed SOLID principles and clean code practices to enhance maintainability and scalability.
- Participated in Agile SCRUM meetings to plan sprints, resolve blockers, and align development goals.
- Implemented role-based access control and authentication mechanisms using .NET security features.
- Handled exception logging and error handling to improve system resilience and supportability.
- Maintained version control using Git, ensuring organized branching and collaboration workflows.
- Prepared technical documentation, including specs and code walkthroughs, to support ongoing development.
- Supported CI/CD integration to enable smooth deployments and frequent release cycles using .NET solutions.

Cerner Corporation, Bangalore, India
Role: .NET Developer

Jun2017- Dec2018

Project: Internal HR & Resource Management Platform

Built and enhanced modules for Cerner's internal HR system using ASP.NET, WCF, and Entity Framework.

Responsibilities:

- Developed responsive web pages using ASP.NET Master Pages, themes, and skins to ensure a cohesive UI across the resource management and recruitment platform.
- Implemented the MVC design pattern using Razor views to separate concerns and enhance maintainability.
- Utilized Entity Framework for ORM-based data access, improving development speed and database interaction efficiency.
- Extensively used ADO.NET for complex data retrieval and manipulation operations with SQL Server.
- Designed and extended WCF services to support reliable, secure communication between application modules.
- Created and consumed SOAP-based services in WCF to enable cross-platform data exchange.
- Wrote unit tests and designed test cases to validate application logic and ensure early bug detection.
- Conducted debugging and code optimization in Visual Studio to enhance performance and stability.
- Created stored procedures and T-SQL queries for efficient backend processing and reporting.
- Integrated backend logic with frontend controls for seamless user interaction and real-time data updates.
- Followed Agile practices with daily stand-ups and sprint planning to ensure timely delivery of project tasks.
- Maintained clean, modular C# code using design principles and coding standards for enterprise applications.
- Documented technical workflows, service interfaces, and troubleshooting guides to support knowledge transfer.
- Contributed to building a scalable .NET-based solution that improved operational efficiency within Cerner's internal HR systems.

Techbuild Brains, Hyderabad-India
Role: Jr .Net Developer

March2016- March2017

Project: Web Application Development – ASP.NET MVC & SQL Server

Contributed to backend development and bug fixes in a team setting for a web application built on ASP.NET MVC.

Responsibilities:

- Participated in the development of a web application using ASP.NET MVC, assisting in various phases of the project lifecycle, including requirements gathering, design, coding, testing, and deployment.

- Wrote and maintained code in C# and ASP.NET, debugging and resolving issues to enhance application functionality and user experience.
- Created technical documentation including code comments and user guides to facilitate future development, maintenance, and knowledge sharing within the team.
- Actively participated in code reviews, providing constructive feedback to peers, and incorporating feedback received to improve code quality and adherence to coding standards.
- Assisted in identifying and resolving bugs and issues reported by QA or end-users, demonstrating problem-solving skills and a dedication to delivering high-quality software.

Education Details:

- Bachelors in computer science and engineering from Jawaharlal Nehru Technological University 2017
- Masters in technology management from Lindsey Wilson College 2023

Certifications

- Microsoft Certified: Azure Developer Associate
- Microsoft Certified: Azure Fundamentals (AZ-900)