Harshini Adusumilli

Senior .Net Full Stack Developer

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Professional Summary:

- Over **10+ years of experience** in the IT industry, specializing in the design, development, and deployment of enterprise-grade applications using the Microsoft technology stack.
- Extensive background in both **Agile Scrum** and **Waterfall SDLC** methodologies, with active participation in sprint planning, backlog refinement, daily stand-ups, and retrospective meetings to ensure timely and high-quality deliverables.
- Strong command of **C#**, including advanced concepts such as **multithreading, collections**, and the application of software design patterns to build scalable, maintainable, and efficient solutions following clean code principles.
- Proficient in creating **UML models**, including **use case diagrams, class diagrams and sequence diagrams** to ensure clear architectural communication and align with business requirements.
- In-depth understanding of architectural styles such as **Onion Architecture, MVC, Microservices**, and **N-Tier**, with practical experience implementing these patterns in real-world enterprise solutions.
- Hands-on expertise in building modern web applications using **ASP.NET Core Web API, ASP.NET MVC, Razor views** and microservices-based architectures to achieve modularity and scalability.
- Designed and developed secure, high-performance **RESTful and SOAP-based web services**, ensuring seamless system integrations and smooth interoperability across platforms.
- Skilled in data access technologies including **ADO.NET, Entity Framework and Entity Framework** Core, optimizing data interaction through well-structured queries and ORM best practices.
- Experienced in handling **data interchange formats** such as **JSON and XML** to enable fast, lightweight, and standardized communication between distributed services.
- Strong experience working with **Azure** cloud services including **API Gateway, Azure Functions, Azure AD B2C** and **Azure App Service** to build cloud-native secure and scalable applications.
- Practical experience with **AWS cloud** services, including **Lambda, EC2, S3, Cognito**, and **API Gateway** delivering fault-tolerant, highly available enterprise applications.
- Implemented **OAuth2** authentication and **role-based access control** (RBAC) to secure application endpoints and manage user permissions effectively.
- Front-end development expertise in **Angular 18, TypeScript, ReactJS, JavaScript, HTML5, CSS3, Bootstrap, jQuery, and AJAX**, delivering responsive, user-friendly, and accessible UI components.
- Worked with both **SQL databases (SQL Server, PostgreSQL, Oracle)** and **NoSQL databases (MongoDB, DynamoDB)** with experience in creating and optimizing **stored procedures, triggers, and functions** for performance tuning.
- Designed and implemented message-driven architectures using **RabbitMQ** and **MSMQ** to enable asynchronous communication and real-time event-driven processing.
- Conducted rigorous testing, including unit testing with **xUnit** for .NET and UI testing with **Karma, Jasmine** and **Protractor**, ensuring the delivery of reliable, bug-free applications.
- Knowledge of **behaviour - driven testing frameworks** like **Cucumber and Citrus** for automating service -level testing for improved coverage and quality.
- Experienced in API testing and documentation using tools such as **Postman, SOAP UI** and **Swagger UI** ensuring clear API specifications and smooth integration.
- Created and managed CI/CD pipelines using **Azure DevOps** and **AWS CodePipeline** for automated builds, deployments, and regression testing, improving release speed and consistency.
- Proficient in configuring and managing continuous integration and deployment pipelines using both **TeamCity** and **Jenkins** ensuring streamlined development workflows and efficient delivery of software solutions.
- Applied microservices best practices with **Docker** and **Kubernetes** for containerized deployments, ensuring application scalability, fault isolation, and ease of maintenance.

- Skilled in source control management using **Git, SVN, and TFS**, maintaining proper versioning, branching strategies, and collaborative coding practices.
- Strong experience with development tools such as **Visual Studio, Visual Studio Code, SQL Server Management Studio**, and **MongoDB Compass** for full-stack development and database management.
- Integrated application logging solutions with **Log4Net** and **Serilog** for structured, centralized logging, enabling effective debugging and system monitoring.
- Hands-on experience with project tracking and management tools like **JIRA, Rally, and TFS** to manage sprints, track deliverables, and maintain project visibility.
- Recognized as a collaborative **team player** and **quick learner**, delivering secure, high-performing, and maintainable software solutions across banking, healthcare, government, and retail industries.

Technical Skills:

Microsoft Development	.NET Framework 4.8, .Net Core 6.0, ASP.NET, ADO.NET, WPF, WCF, LINQ
Programming Languages	C#, VB.Net, Razor, JavaScript, SQL
Web Technologies	ASP.NET, HTML5, CSS3, Bootstrap, Java Script, JQUERY, Angular 18, React JS, React Router, XML, JSON, XAML, XSL, XSLT, Kendo UI, Knockout JS, Node.js, Marionette.js, Require JS, Ajax.
Database Technologies	Microsoft SQL Server, T-SQL, Oracle Database, PostgreSQL, MongoDB, DynamoDB
Markup Languages	XML, XHTML, DHTML, SOAP, WSDL, Web Services
Version Control Tools	Git, Team Foundation Server (TFS), SVN
DevOps Tools	Team City, Jenkins, Docker, Kubernetes
Architecture Tools	UML, Rational Rose, Design Patterns, MVC, MVVM
Cloud Environment	Azure (App Service Functions), API Gateway, Azure AD B2C), AWS (Lambda, EC2, S3, Cognito, API Gateway, VPC)
Software Testing	MS-Test, N-unit, Mocking, Visual Studio Unit Test, J unit, Jasmine.
Tools	SQL Server Reporting Services (SSIS), SQL Server Integration Services (SSRS), SQL Server Management Studio (SSMS), Open Database Connectivity (ODBC), Mule Soft, Microsoft Access, Redis, OData, IIS, Crystal Reports, MS Visio, Powe Apps, SharePoint, Subversion, Delphi, Xpedite, Adobe Experience Manager.

Professional Experience:

Client: Citizen's Bank Johnston, RI Jan 2024 – PRESENT

Role: Senior .Net Full Stack Developer

Project Description:

Citizens Financial Group, a leading U.S. bank, implemented the **Digital Loan Origination Platform** to automate end-to-end loan processing, including application intake, credit evaluation, and approvals. Built with **.NET 8, ASP.NET Core Web API (Microservices), Entity Framework Core, Angular 18, SQL Server, Azure Cloud, NgRx, OAuth2, and Apache Kafka**, the platform enables secure, scalable, and efficient lending operations, improving processing speed by 40%.

Roles and Responsibilities:

- Developed a scalable Digital Loan Origination Platform for Citizen’s Bank using **ASP.NET Core Web API (Microservices)** and **Agile methodologies**, improving loan processing efficiency by 40%.

- Architected and implemented **RESTful APIs** to facilitate seamless and secure communication between loan processing services, credit scoring modules and customer notification systems.
- Developed microservices in **.NET 8** and **C#**, ensuring clean, reusable, and maintainable code by following **SOLID principles** and enforcing best coding practices.
- Leveraged **Entity Framework Core** with **SQL Server** for high-performance data access, enabling **LINQ**-based queries, migrations, and optimized indexing strategies to ensure reliable and scalable storage of customer and loan application data.
- Implemented standardized **JSON**-based data exchange for communication between Angular front-end, ASP.NET Core Web API microservices, and Kafka event streams, ensuring seamless interoperability, real-time loan status updates, and consistent data flow across the platform.
- Orchestrated **Azure Cloud services**, including **API Gateway** for microservices routing, **OAuth2** with **Azure AD B2C** for secure authentication, and **Azure App Service** for scalable deployments.
- Played a key role in designing **microservices architecture** that supported both **B2B and B2C channels**, ensuring scalability and high availability in Azure Cloud infrastructure.
- Built **responsive front-end modules** with **Angular 18, Bootstrap, and JavaScript**, delivering a user-friendly and efficient interface for loan application submission and tracking.
- Implemented **NgRx state management** to handle complex workflow states in the loan application process, ensuring predictable UI behavior and performance at scale.
- Structured customer and loan data storage in **SQL Server**, applying normalization and indexing to ensure both data integrity and query performance.
- Integrated **Apache Kafka** as a distributed messaging system to enable real-time loan status updates and asynchronous event-driven communication between services.
- Conducted **Test-Driven Development (TDD)** with **xUnit** for unit testing, **Karma/Jasmine** for UI testing, and **Protractor** for end-to-end testing, ensuring high-quality deliverables.
- Applied **component and integration testing** strategies, ensuring seamless interaction between microservices and reliable customer-facing applications.
- Created and maintained **Swagger-based API documentation** for developer reference, and used **Postman** for functional, integration, and performance testing of REST APIs.
- Designed and automated **CI/CD pipelines** using **Azure DevOps**, incorporating build, unit test, integration test, and deployment stages for faster and more reliable delivery to Azure environments.
- Implemented **SonarQube code quality checks** to enforce coding standards and reduce technical debt, and configured **Log4Net-based logging** for secure, centralized monitoring and troubleshooting of API and microservice operations.
- Configured **Internet Information Services (IIS)** for hosting internal APIs and optimized application security through hardened configurations and monitoring.
- Built and deployed **Azure Functions** for lightweight serverless tasks, such as automated credit score checks and loan eligibility calculations, integrating with **Azure SQL Database, Key Vault**, and **Cognitive Services** for secure and intelligent cloud-based processing.
- Fostered seamless collaboration and code evolution with **Git** version control, while optimizing build processes through **Visual Studio** for streamlined development workflows.
- Collaborated with cross-functional teams including business analysts, QA engineers during **Agile ceremonies**, and tracked progress using **JIRA** for full transparency and accountability.
- Designed and implemented **SSRS-based reports** and dashboards to provide real-time insights into loan application trends and approval rates for bank executives.

Environment: .NET 8, ASP.NET Core Web API (Microservices), RESTful Web Services, Entity Framework Core, JSON, Azure Cloud (API Gateway, Azure App Service, Azure Functions, Azure AD B2C), OAuth2, Angular 18, JavaScript, Bootstrap, SQL Server, Apache Kafka, xUnit, Karma, Jasmine, Protractor, Postman, Swagger UI, Azure DevOps CI/CD, SonarQube, Git, Visual Studio, Log4Net, JIRA.

Client: BCBS Chicago, IL Sept 2022 – Dec 2023

Senior .NET Full Stack Developer

Project Description:

Blue Cross Blue Shield, a leading U.S. health insurance company, implemented the **Real-Time Claims Processing and Member Enrollment Platform** to streamline member enrollment, eligibility verification, and claims submission. The platform was built using **.NET 7, ASP.NET Core Web API (Microservices), Entity Framework Core, Angular 16, NgRx, Azure Cloud (App Service, API Management Gateway, Functions, Blob Storage, AD B2C), SQL Server, RabbitMQ, and OAuth2**. It enabled secure, real-time, and scalable healthcare operations, improving claims accuracy and overall member experience.

Roles and Responsibilities:

- Applied **Agile Scrum methodology** by actively participating in sprint planning, daily standups, backlog refinement, and retrospectives, which enabled iterative development, continuous integration, and delivery of healthcare features with clear visibility and collaboration across teams.
- Followed **Onion Architecture principles** to enforce strict separation of concerns, organizing the solution into core, application, domain, and infrastructure layers, which improved code maintainability, testability, and scalability across distributed microservices.
- Developed backend services using **ASP.NET Core Web API** within a microservices architecture, implementing service decomposition, versioned endpoints, and standardized error handling to ensure robust, scalable, and reusable API services for healthcare operations.
- Built and exposed **RESTful APIs** to support member enrollment, claims processing, and eligibility verification workflows, applying consistent resource naming, secure input validation, and standardized response structures to integrate seamlessly with partner systems.
- Utilized **Entity Framework Core with SQL Server** to implement the ORM layer, designing optimized entity mappings, leveraging stored procedures and LINQ queries, and applying indexing strategies to achieve efficient query execution and reliable management of high-volume healthcare data.
- Standardized **JSON**-based data exchange between Angular front-end, microservices, and external partner systems, implementing serialization and deserialization pipelines that ensured interoperability, schema consistency, and efficient real-time communication.
- Deployed microservices on **Azure Cloud** using App Service for hosting, API Management Gateway for secure routing, Azure Functions for serverless automation, and Blob Storage for document handling, which together enabled elastic scalability, high availability, and secure deployments.
- **Secured API endpoints with OAuth2 and Azure AD B2C**, configuring role-based access control, JWT validation, and claims-based authorization policies to enforce HIPAA-compliant authentication and ensure secure access for both internal staff and external users.
- Applied strong understanding of **HIPAA compliance** and healthcare data standards (HL7, FHIR) to design secure, interoperable, and regulatory-compliant healthcare applications.
- Designed and implemented front-end modules using **Angular 16** with **TypeScript, HTML, CSS, JavaScript, Bootstrap, and NgRx** state management, creating responsive, maintainable, and efficient workflows for claims submission, status tracking, and member self-service features.
- Implemented **RabbitMQ** to enable asynchronous, event-driven communication between distributed services, configuring durable queues, routing strategies, and acknowledgments to support real-time notifications, reliable message delivery, and decoupled service interactions.
- Applied a comprehensive testing strategy by developing backend unit tests with **xUnit**, Angular component tests with **Karma/Jasmine**, end-to-end tests with **Protractor**, and integration tests for inter-service communication, ensuring high-quality, defect-free deliverables.
- Used **Postman** for API validation, designed self-documented APIs with **Swagger UI**, and optionally employed **SOAP UI** for service automation, which provided full coverage for functional, integration, and performance testing of RESTful services.
- Automated builds, tests, and deployments through **Azure DevOps** pipelines by configuring build definitions, unit test execution, integration test stages, and release pipelines, ensuring consistent, secure, and repeatable deployments across development, QA, and production environments.
- Leveraged Azure as the primary cloud platform, configuring monitoring, scaling rules, and deployment slots to enable high availability, predictable performance, and efficient resource utilization for healthcare microservices.

- Integrated SonarQube into **CI/CD** pipelines to perform continuous static code analysis, enforce coding standards, detect vulnerabilities, and reduce technical debt, improving overall code maintainability and quality.
- Managed source code using **Git** by following **GitFlow** branching strategies, conducting regular pull requests and peer reviews, and maintaining version history to ensure efficient collaboration and code quality across distributed teams.
- Used **Visual Studio and Visual Studio Code** as primary development tools, integrating them with Git and Azure DevOps, and configuring debugging, build automation, and extensions to streamline both backend and front-end development workflows.
- Configured **Serilog** for structured logging, designing centralized logging with sinks for Azure Monitor and Application Insights, and applying correlation IDs for distributed tracing to ensure efficient monitoring and diagnostics across microservices.
- Collaborated with cross-functional teams in Agile ceremonies, leveraging **Rally** to plan sprints, refine backlogs, and track task progress, ensuring alignment between developers, QA engineers, and business analysts throughout the project lifecycle.

Environment: .NET 7, ASP.NET Core Web API (Microservices), RESTful Web Services, Entity Framework Core, JSON, Azure Cloud (App Service, API Management Gateway, Functions, Blob Storage, AD B2C), OAuth2, Angular 16, NgRx, TypeScript, HTML, CSS, JavaScript, Bootstrap, SQL Server, RabbitMQ, xUnit, Karma, Jasmine, Protractor, Postman, Swagger UI, SOAP UI, Azure DevOps CI/CD, Git, Visual Studio, Visual Studio Code, SonarQube, Serilog, Rally.

Client: State of California, SFO, CA Oct 2020 – Aug 2022

Role: Senior .Net Full Stack Developer

Roles and Responsibilities:

- Adopted **Agile** Scrum practices by contributing to sprint planning, backlog grooming, standups, and retrospectives, enabling incremental delivery of features, continuous stakeholder engagement, and quick adaptation to changing business priorities.
- Applied **MVC architecture** design patterns to separate presentation, business logic, and data access layers, which improved code maintainability, reduced complexity, and allowed teams to work independently across UI, service, and database components.
- Engineered backend functionality with **ASP.NET MVC and C#**, building controllers, service classes, and reusable utilities to implement core business processes, enforce validation, and deliver scalable enterprise workflows.
- Developed and published **RESTful APIs** within the **ASP.NET MVC** application, establishing uniform routing, versioning, input validation, and structured error handling to support reliable integration with internal modules and external systems.
- Integrated **Entity Framework** as the ORM to streamline database operations, leveraging LINQ for querying, managing schema migrations, and ensuring type-safety while bridging application models with Oracle database structures.
- Standardized **JSON**-based data exchange between MVC modules, Angular components, and external partner systems, defining consistent payload structures and implementing serialization mechanisms for efficient and lightweight communication.
- Deployed applications on **Microsoft Azure**, configuring **App Service** for hosting, **API Management** for secure API exposure, **Functions** for serverless operations, and **Blob Storage** for document management, ensuring fault tolerance and scalability.
- Secured APIs with **OAuth2** and **Azure AD B2C**, configuring **JWT** validation, claims-based authorization, and RBAC policies to enforce secure authentication and safeguard sensitive application data.
- Developed interactive front-end modules using **Angular 13** with **TypeScript, HTML, CSS, Bootstrap, AJAX, and NgRx**, creating reusable UI components, implementing reactive forms, and applying state management to provide responsive and user-friendly applications.—

- Optimized **Oracle Database** by designing normalized schemas, tuning queries, and creating stored procedures, triggers, and functions, which enhanced performance, reduced execution times, and supported heavy transactional workloads.
- Established a comprehensive testing strategy, writing unit tests with **xUnit** for backend layers, **Karma/Jasmine** for Angular components, **Protractor** for end-to-end workflows, and service integration tests to ensure reliability and minimize regression risks.
- Performed API testing and documentation using **Postman** for validation, **Swagger UI** for auto-generated documentation, and **SOAP UI** for service automation, achieving thorough functional, integration, and performance verification.
- Automated build and deployment pipelines in **Azure DevOps**, defining tasks for build verification, unit/integration test execution, and automated releases, ensuring faster, consistent, and secure deployments across environments.
- Maintained source code with **TFS**, applying branching strategies, gated check-ins, and peer review processes to promote collaboration, maintain version control integrity, and ensure structured release cycles.
- Utilized **Visual Studio and Oracle SQL Developer** as primary development environments, integrating them with TFS for version control, while using SQL Developer to execute queries, debug PL/SQL procedures, and monitor database performance
- Configured **Log4Net** for application logging, implementing centralized error tracking, performance monitoring, and audit trails to support diagnostics, compliance reporting, and proactive issue resolution.
- Worked closely with analysts, developers, and QA teams during Agile ceremonies, leveraging TFS boards for sprint planning, backlog tracking, and day-to-day coordination to align technical implementation with business objectives.

Environment: .NET 7, ASP.NET MVC (MVC Architecture), C#, RESTful Web Services, Entity Framework, SQL Server, JSON, OAuth2, RBAC, HTML5, CSS3, JavaScript, Angular 13, jQuery, Bootstrap, AJAX, xUnit, TFS/Git, Visual Studio, SQL Server Management Studio (SSMS), Log4Net, SSRS, Asynchronous Services, Azure (App Service, Functions, API Gateway).

Client: Lululemon Dallas, TX Apr 2017 - Sep 2020

Role: .Net Full Stack Developer

Roles and Responsibilities:

- Implemented **Agile**-based development practices, breaking work into smaller increments, running sprint ceremonies, and ensuring continuous delivery of features aligned with business priorities.
- Developed the solution with **.NET MVC**, leveraging its layered architecture to separate user interface, business logic, and data management for better scalability and maintainability.
- Built **SOAP web services** to connect the application with external supplier and logistics platforms, providing secure integrations and enabling **XML**-driven communication standards.
- Worked extensively with **ADO.NET** for data access, executing commands, transactions, and stored routines to handle high-volume inventory operations while maintaining consistency and reliability.
- Adopted **XML** for inter-service messaging, making it the universal format for system-to-system communication and ensuring compatibility with third-party partners.
- Developed responsive front-end modules using **ReactJS, Redux, JavaScript, HTML5, and CSS3**, delivering dynamic and intuitive user experiences for business and retail applications.
- Designed and managed **MongoDB collections and indexes**, implementing schemas that supported flexible data storage, quick queries, and real-time processing of retail transactions.
- Conducted automated unit testing with **xUnit**, validating business logic and data interactions to minimize defects, reduce risks, and improve code maintainability.
- Maintained source code using **SVN**, setting up versioning policies, enabling collaborative workflows, and ensuring stable release management.

- Leveraged **Visual Studio** as the core IDE and build platform, supporting end-to-end application development, debugging, and deployment workflows.
- Introduced **Log4Net** for diagnostic logging, creating detailed error logs, audit trails, and performance metrics to support monitoring and troubleshooting efforts.
- Managed Agile work items in **JIRA**, tracking sprint goals, backlog progress, and team activities to maintain visibility, accountability, and predictable delivery timelines.

Environment: .NET 6, ASP.NET Core Web API (Microservices), RESTful Web Services, ReactJS, Redux, JavaScript, HTML5, CSS3, Bootstrap, Axios, Entity Framework Core, JSON, AWS Cloud (API Gateway, Lambda, EC2, S3, VPC, Cognito, CloudWatch), NoSQL (DynamoDB), RabbitMQ, xUnit, Jest, Postman, Swagger UI, Jenkins, AWS CodePipeline, AWS CodeBuild, Git, Visual Studio, Visual Studio Code, Serilog, JIRA.

Client: Infosys, Hyderabad, India Jun 2015 – Feb 2017

Role: .NET Developer

Roles and Responsibilities:

- Developed a **multi-tier banking application** using **ASP.NET WebForms with ADO.NET**, following **Waterfall SDLC** and ensuring secure data access and manipulation.
- Designed and enhanced **front-end interfaces** using HTML, CSS, WebForms, JavaScript, jQuery, and AJAX for improved usability and responsiveness.
- Built and consumed **SOAP-based web services**, including custom handlers, to enable secure integration with external systems.
- Managed and optimized **PostgreSQL databases** with complex queries, PL/SQL stored procedures, triggers, and indexing for efficient transaction handling.
- Implemented **secure authentication, session management**, and **unit testing** with **xUnit**, improving reliability and compliance with banking security protocols.
- Utilized **TFS for version control, task tracking, and release management**, while participating in requirement gathering, system design, code reviews, and debugging to ensure high-quality delivery.

Environment: .NET Framework 4.8, ASP.NET WebForms, SOAP Web Services, ADO.NET, XML, HTML5, CSS3, JavaScript, jQuery, AJAX, PostgreSQL, xUnit, SVN, Visual Studio, TFS.

Education

DVR & Dr. HS MIC College of Technology, Kanchikacherla **Jun 2011 – Apr 2015**

Bachelor of Technology in Computer Science and Engineering