Hemanth Kumar
Full Stack .NET Developer

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Professional Summary

- Experienced **Full Stack .NET Developer** with 5+ years developing enterprise grade web applications using **C#**, **.NET Core 6**, **ASP.NET MVC**, **Angular 14**, **React**, and **SQL Server**. Led modernization of legacy systems serving 50,000+ users in **Agile** environments with 99.9% uptime.
- Architected enterprise applications following **SOLID principles**, **Clean Architecture**, and **N-Tier** design patterns using **C#**, **.NET Core 6**, **Entity Framework**, and **Dependency Injection** to achieve 95% code maintainability score.
- Expert in **Microsoft .NET ecosystem** including **C#**, **ASP.NET Core**, **ASP.NET MVC**, **Web API**, **Entity Framework**, **ADO.NET**, **WCF**, **WPF**, **Windows Services**, and **.NET 6** with 5+ years hands on development experience.
- Hands on experience using **Visual Studio (2015–2022)** and **SQL Server (2016–2022)** for developing and maintaining enterprise applications.
- Expertise in front end development using **Angular**, **React**, **HTML5**, **CSS3**, **Bootstrap**, **JavaScript**, **jQuery**, **TypeScript**, and **AJAX**.
- Extensive knowledge of **Angular** features: **Services**, **Directives**, **Pipes**, **Reactive Forms**, **Dependency Injection**, **Interceptors**, **Modules**, and **SPA architecture**.
- Experienced in building **RESTful APIs** using **ASP.NET Web API** and **WCF**; consumed APIs using **Angular HTTP Client**.
- Developed and integrated **SOAP/XML Web Services** using **IIS** and **VBScript** for legacy system connectivity and enterprise application interoperability.
- Designed and maintained **CI/CD pipelines** using **Jenkins** and **Azure DevOps** for automated build, test, and deployment.
- Strong experience in **SQL Server** including **SQL**, **T-SQL**, **SSIS** for **ETL**, **Stored Procedures**, **Views**, **Functions**, and **database normalization**.
- Implemented **Entity Framework** using both **Code First** and **Database First** approaches.
- Conducted **Web API testing** using **Postman** and **Swagger**; validated **HTTP** requests and responses.
- Experienced in **unit testing** using **xUnit** and **NUnit** for **.NET Core** and legacy systems; used **Jasmine** and **Karma** for **Angular**, and **Jest** for **React**.
- Architected and deployed cloud native applications on **Microsoft Azure** and **AWS**, implementing **microservices architecture** and **scalable solutions.**
- Skilled in using **Git** for **source control** and **version control**, and **Jira** and **Azure DevOps** for **project tracking**.
- Applied **ADO.NET**, **LINQ**, and **Lambda Expressions** for backend logic implementation and data access.
- Collaborated with **UI/UX** teams, testers, and **DevOps** engineers in **Agile** sprints to deliver secure, scalable applications supporting critical business and citizen facing functions.
- Demonstrated success in leading end to end application lifecycle, from requirements gathering and architecture design to deployment, monitoring, and support.

TECHNICAL SKILLS:

Category	Tool/Technology
Frontend Technologies	Angular 14, React, TypeScript, JavaScript, HTML5, CSS3, Bootstrap 4, jQuery, Kendo UI, Blazor
Backend Technologies	C#, ASP.NET Core 6, .NET 6, .NET Framework, ASP.NET MVC, Web API, Entity Framework, ADO.NET, SQL Server, LINQ, T-SQL, SSIS, VB.NET
API Development	RESTful Web API, SOAP, XML, XSLT, Postman, Swagger, JWT (JSON Web Token), WCF
Cloud & Deployment	Microsoft Azure (App Service, Function Apps, SQL Azure, Blob Storage, Table Storage, Azure Files), AWS (EC2, S3, RDS, Lambda), Docker, Kubernetes
Version Control	Git, Azure DevOps, VSS
Project Management	Jira, Azure DevOps, Scrum, Agile
Testing	xUnit, NUnit, MS Test, Jasmine, Karma, Jest, Protractor
Additional Tools	Visual Studio 2022, VS Code, SSRS, SignalR, Jenkins, Crystal Reports
Methodologies	Waterfall, Agile, Scrum, CI/CD

Education:
Master of Science in **Information Systems and Technology** from the **University of North Texas**

Professional Experience:

Client: Quadax, Cleveland, OH   **Jan 2023 to Till Date**
Full Stack .NET Developer

Responsibilities:

- Built high performance **Single Page Application (SPA)** using **Angular 14**, **TypeScript**, **HTML5**, **CSS3**, **Bootstrap 4**, and **jQuery**, delivering responsive UI supporting mobile, tablet, and desktop with 99% cross browser compatibility.
- Optimized application performance by implementing **Python** data processing scripts and **Docker** containerization, achieving 35% faster page load times and supporting 10,000+ concurrent users with **Kubernetes** orchestration.
- Modernized legacy services into **RESTful APIs** using **ASP.NET Core 6**, **MVC**, and **Angular 14**, improving system maintainability and supporting healthcare compliance.
- Created reusable **Angular 14** components using RxJS, **TypeScript**, and **JWT interceptors** for secure and efficient **client-server** communication.
- Developed **interactive UI** using **Blazor**, **C#**, **Bootstrap**, and **JavaScript** to deliver seamless integration with .NET and responsive layouts.
- Automated UI testing using **Protractor**, **Jasmine**, and **Karma**, reducing front-end bugs by 30% during **UAT cycles.**
- Migrated **VB.NET Web Forms** to **Angular 14** and **.NET Core 6**, reducing technical debt by 60% and boosting app performance by 45%.
- Developed data processing and automation scripts using **Python**, leveraging libraries such as Pandas and NumPy for data manipulation, and implemented **RESTful API** integrations to support backend services.
- Developed backend **CRUD** operations using **C#, SQL Server 2022, T-SQL, ADO.NET,** and **Entity Framework** (Database First) within an **MVC** architecture.
- Implemented unit testing with **xUnit** and applied **Dependency Injection** in ASP.NET Core 6 to achieve loose coupling, enhance testability, support modular architecture, and reduce database latency by 25%.
- Utilized **Postman** for **API** testing and monitoring, verifying endpoints for both **SOAP** and **REST** based services built in **C#**, **ASP.NET Core**, **XML**, and **XSLT**.
- Integrated **Crystal Reports** for generating custom PDF/Excel reports, supporting legacy report requirements.
- Deployed applications using **Azure App Service**, **Docker**, **Azure Container Registry**, and configured **Kubernetes** with **Jenkins** pipelines for **CI/CD**, resulting in **40%** deployment time reduction.
- Implemented **Git branching strategies** and **Azure DevOps CI/CD pipelines** for automated builds, testing, and deployment across multiple environments, reducing deployment time by **40%.**
- Created and maintained **CI/CD** pipelines using **Jenkins** to automate builds and **xUnit** test executions, enabling smooth production deployments to containerized **Azure Kubernetes Service (AKS)** clusters with integrated **SQL Server** migrations.
- Utilized **Azure Storage** services including **Azure Blob Storage**, **Azure Table Storage**, and **Azure Files** for efficient management of structured and unstructured data, seamlessly integrating them into **.NET Core** applications using **C#**.
- Created secure **APIs** using **JWT based authentication**, implemented Authorization Filters, Attribute Routing, and Exception Filters in **Web API** to handle edge cases and protect endpoints.
- Built **Angular** based task modules using **Bootstrap** Modals, **jQuery**, and custom services, implementing observable-based async logic for form actions and token storage in browser local/session storage, tested **API** interactions with **Postman**.
- Ensured cross browser compatibility and UI accessibility by following WCAG guidelines, leveraging **HTML5**, **CSS3**, and **Bootstrap** responsive utilities.
- Developed Windows **Azure applications** using **C#**, **.NET 6**, and **Azure Data Sync**, enhancing data consistency across distributed services.
- Leveraged **Visual Studio 2022** and **VS Code** for full stack development, debugging, code reviews, and seamless integration with **Git** and **Azure DevOps**.

Environment: C#, .NET Framework, Angular 14, Blazor, Python, Protractor, Web API, SQL Server, TypeScript, HTML5, CSS3, Bootstrap4, T-SQL, Jenkins, Kubernetes, Azure App Service, Postman, CI/CD pipelines, ASP.NET Core 6, MVC, jQuery, XML, .NET Framework, Docker, Entity Framework, JWT, Crystal Reports, Azure Storage, Blob Storage, Table Storage, Azure Files, SOAP, XSLT, Jasmine, Karma, Git, Azure DevOps, xUnit, VS Code.

Client: HSBC, India   **June 2020 to Nov 2021**
Full Stack .NET Developer

Responsibilities:

- Implemented dynamic and responsive UI development using **MVC** and **React**, leveraging **HTML5, CSS3, jQuery, Bootstrap**, and **JavaScript** for front end styling and interactions.
- Led complete modernization of legacy **VB.NET Web Forms** system to **React** frontend with **.NET Core Web API** backend, reducing maintenance costs by 40% and development time by 50% for 25,000+ banking users.
- Integrated **SSRS** for reporting and implemented **Swagger** for **API** documentation and testing and Utilized **ADO.NET** and **Entity Framework** for efficient data access, management, and database interaction.

- Developed a modern, scalable application using **.NET Core, VB.NET,** and **C#** for backend functionality with **MVC** architecture while Utilizing **React** and **WPF** for UI components and migrated legacy **Web Forms** components to a modern.
- Ensured smooth backend and frontend integration by employing **Swagger** for testing. Incorporated version control with **Git** and managed build/release pipelines through **Azure DevOps**.
- Leveraged **Azure DevOps** for **CI/CD** automation and managing build pipelines, deployments, and continuous integration and ensured smooth application delivery in the cloud by integrating **Azure DevOps** with **.NET Core, C#** and **React** projects.
- Containerized applications using **Docker** and orchestrated services with **Kubernetes** to ensure scalable and portable deployments across diverse environments.
- Integrated containerization and orchestration into **microservices based .NET Core** and **React** applications to streamline deployment workflows and improve reliability.
- Developed robust **RESTful APIs** with **.NET Core Web API**, integrating **SQL Server** using **ADO.NET, Entity Framework**, **LINQ** and **stored procedures** for efficient and optimized data access, retrieval, and manipulation.
- Enabled real time communication and dynamic user updates by integrating **SignalR** into the application and leveraged **.NET Core** for backend signaling and **React** for responsive, interactive frontend behavior.
- Designed and implemented **ETL** processes using **SSIS** to optimize data flow across systems, ensuring seamless integration and reliable management. Supported the solution with **SQL Server** and **.NET Core** for efficient processing and data handling.
- Secured **APIs** using **OAuth 2.0** and **JWT** to ensure proper authentication and authorization, maintaining a safe and secure user experience within **.NET Core** applications.
- Conducted unit and integration testing using **NUnit** and **MS Test** to ensure high quality, bug free application delivery by implementing comprehensive testing strategies across **.NET Core** projects.
- Utilized **Visual Studio** and **VS Code** for efficient development, debugging, code reviews, and performance optimization of **.NET Core** applications.
- Led **Agile ceremonies** including sprint planning, daily standups, and retrospectives, facilitating cross functional collaboration and ensuring on time project delivery.

Environment: C#, VB.NET, Web forms, .NET Core Web API, Visual Studio, VS Code, React, MVC 4, WPF, ADO.NET, Entity Framework, SignalR, JavaScript, jQuery, HTML5, CSS3, Bootstrap, NUnit, MS Test, Jest, RESTful APIs, Swagger, SSIS, SQL Server 2017, LINQ, WCF, SOAP, SSRS, Azure, Git, Jira, VSS.

Client: Luxoft, India   **March 2018 to May 2020**
.Net Developer

Responsibilities:

- Collaborated with stakeholders and business analysts to gather requirements and assess technical feasibility **for C#, .NET Framework,** and **React** applications, delivering 15+ successful project implementations.
- Designed, code, benchmark testing, debugging and documentation of programs using **C#, VB.net, React** and **Web Services**.
- Implemented robust data binding strategies for seamless interaction between UI and data, leveraging **React**, **ADO.Net**, and **SQL Server** for efficient data management.
- Experience in writing and maintaining complex **SQL queries**, including **SELECT, INSERT, UPDATE** statements, optimizing performance, and ensuring data integrity across databases.
- Utilized **AWS** services such as EC2, S3, and RDS for scalable and reliable hosting, storage, and database solutions, enhancing application performance and reliability.
- Developed Master Pages for multiple pages and custom **CSS** for a unique look and feel of the application, incorporating **React** components for dynamic user interfaces, with code behind logic implemented in **VB.NET**
- Designed user interface and web pages using **HTML, CSS, JavaScript and jQuery, React** and **Kendo UI.**
- Implemented business logic using **C#** and developed web applications using **ASP.NET MVC** and **ASP.NET**, integrating **VB.NET** for specific modules that required legacy system integration.
- Extensive experience in designing and implementing **RESTful APIs** using **.NET Core.**
- Designed and implemented **Stored procedures** for optimized data handling and management within the database.
- Designed integration patterns for seamless communication between system components, ensuring interoperability with different systems through **.NET Core, WCF, and SOAP** protocols.
- Implemented **AWS Lambda** functions for serverless computing, optimizing backend processes and reducing operational overhead, ensuring efficient resource utilization.
- Led sprint progress tracking and collaborated with cross functional teams to identify bottlenecks, resolve technical blockers, and ensure project deliverables met business requirements.
- Collaborated with stakeholders and business analysts to gather requirements, assess technical feasibility, and provide technical leadership for enterprise application development.
- Proficient in using **Git** for version control, with expertise in branching, merging strategies, and utilizing **Azure DevOps** for seamless integration, build, and deployment processes.

Environment: C#, React, Azure DevOps, HTML, CSS, JavaScript, jQuery, Kendo UI, React, VB (Visual Basic), Web Services, AWS (Lambda , EC2, S3, RDS) ADO.NET, SQL Server, ASP.NET MVC, ASP.NET, RESTful APIs, .NET Core, Git.