Srinivas Musinuri

Dot Net Full Stack Developer

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Summary

Full Stack Developer with 4+ years of experience in building scalable, high-performance applications for **healthcare**, **finance**, and **cloud**-based solutions. Proficient in **ASP.NET Core**, **C#**, **SQL Server**, **React.js**, and **Angular**. Skilled in **microservices**, event-driven architectures (**RabbitMQ/Kafka**), and cloud deployments **(Azure**, **AWS**). Expertise in optimizing **RESTful APIs**, real-time apps (**SignalR**), **CI/CD** pipelines (**Azure, DevOps, Docker, Kubernetes**), and ensuring compliance with **HIPAA/FHIR**. Excels in cross-functional collaboration, problem-solving, and delivering business-critical solutions with efficiency and innovation. Proficient in using **ADO.NET** for efficient data access and **WCF** for building secure, distributed systems and service-oriented architectures.

Education

Master in Computer Science **Aug 2023 - Dec 2024**
University of Central Missouri, USA

Bachelor of Engineering in Computer Science **Aug 2016 – May 2020**
Dr Ambedkar Institute of Technology, India

Skills

Programming Languages: C#, C++, .NET, SQL, JavaScript, TypeScript, HTML5, CSS3, T-SQL, PL-SQL,Python
Front-End Technologies: Angular, React.js, Blazor, Bootstrap, JavaScript, jQuery
Back-End Technologies: ASP.NET Core, Web API, RESTful APIs, Microservices, RabbitMQ, Kafka, WCF
Database Management: SQL Server, NoSQL (MongoDB), Entity Framework, LINQ, SSRS, SSIS, SSMS, ADO .NET
Cloud Technologies: Azure (Azure App Services, Azure Functions, Azure SQL Database, Azure Blob Storage, Azure DevOps), AWS (EC2, S3, RDS, Lambda, IAM, SQS, SNS)
Development Tools: Visual Studio, Azure DevOps, Docker, Kubernetes
Testing Frameworks: NUnit, XUnit, Moq
Design Principles: SOLID Principles, Dependency Injection, MVC, Repository Pattern

Certification

- **AZ-900** Azure Fundamentals
- **DP-900** Azure Data Fundamentals

Experience

Virtusa **Dec 2021 – Aug 2023**
.Net Full Stack Developer

- Designed and implemented **Microservices architecture** using **.NET Core**, breaking down monolithic applications into smaller, independent services to improve scalability and resilience.
- **Led the full-stack development** of a **healthcare management** system using **ASP.NET Core** and **React.js**, ensuring adherence to **SOLID principles** for maintainability and scalability.
- Designed and developed **RESTful APIs** for managing patient records, appointment scheduling, and billing systems, ensuring **HIPAA compliance** through **JWT-based authentication** and **SSL/TLS encryption**.
- Integrated **Azure Functions** for serverless execution of business logic, such as appointment reminders and status updates, improving system efficiency.
- Utilized **Azure Blob Storage** for secure storage and fast retrieval of medical images and patient documents.
- Improved database performance by **40%** through the implementation of **Entity Framework Core (EF Core)** for **Object-Relational Mapping (ORM)**.
- Deployed scalable applications on **Azure App Services**, automating the deployment pipeline using **Azure DevOps** to ensure zero downtime during updates.
- Ensured compliance with healthcare industry standards, including **FHIR (Fast Healthcare Interoperability Resources)**, for secure health data exchange.
- Enhanced query performance by implementing **SQL Server stored procedures**, reducing response times for large medical datasets.
- Integrated **RabbitMQ** for messaging between services, reducing latency in the order processing system, and implemented **Kafka** for real-time event streaming and analytics.
- Migrated infrastructure to **AWS**, leveraging **EC2** for hosting, **RDS** for database management, and **S3** for storage, reducing operational costs by **40%**.
- Developed **AWS Lambda functions** for asynchronous task handling, such as processing uploaded files, reducing compute resource overhead.
- Automated the build and deployment pipeline using **Azure DevOps**, implementing **CI/CD** practices for seamless production updates.

- Optimized database queries using **SQL Server** and **NoSQL techniques**, improving performance by **30%**.
- Enhanced security by integrating **OAuth 2.0** and **OpenID Connect** for secure user authentication and authorization.
- Applied **dependency injection** to promote loose coupling between modules, facilitating easier testing and code reusability.
- Collaborated with cross-functional teams, including **UI/UX**, **DevOps**, and Product Managers, to deliver scalable, user-centric applications.
- Developed a **WCF** service to handle secure communication between multiple healthcare systems, ensuring seamless data exchange for patient records.

CGI Information Systems and Management Consultants Pvt Ltd, India **Oct 2020 – Dec 2021**
.Net Developer

- Developed the core back-end logic for a financial dashboard using **ASP.NET Core** and **MVC**, ensuring efficient data flow and real-time interaction.
- Involved in the complete Software Development Life Cycle (**SDLC**) including **Analysis**, Design, **Implementation**, Testing and Maintenance with **Agile Methodology**.
- Developed **WCF** services to facilitate communication between distributed systems and external partners for secure order processing.
- Implemented **NoSQL solutions** using **MongoDB** for unstructured patient data, improving search speeds and reducing database load during high-volume transactions.
- Applied the **MVC design pattern** for separation of concerns, improving codebase organization and scalability.
- Integrated **RabbitMQ** for asynchronous message queuing, enabling efficient handling of market data updates and order processing.
- Implemented **SignalR** for real-time data streaming, providing traders with instant notifications on stock market events.
- Secured the application with **JWT** and **OAuth 2.0** for authentication and authorization, protecting sensitive financial data.
- Developed **unit and integration tests** using **xUnit** and **Moq**, ensuring bug-free production deployments.

Sonata Software, India **Jan 2019 – Oct 2020**
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- Developed the core back-end logic for a financial dashboard using **ASP.NET Core** and **MVC**, ensuring efficient data flow and real-time interaction.
- Created **NoSQL (MongoDB)** databases for storing trading data, improving retrieval speeds and reducing costs associated with traditional relational databases.
- Automated financial report generation using **SSRS (SQL Server Reporting Services)**, enhancing operational decision-making.
- Worked on creating reports using **SQL Server Integration Services (SSIS)** and **SQL Server Reporting Services** (SSRS). Have created various SQL server jobs using SQL Server Agent that process various T-SQL statements.
- Designed the front-end using **Angular**, integrating dynamic charts with **Chart.js** and **D3.js** to visualize market trends in real time.
- Integrated RabbitMQ for asynchronous message queuing and **WCF** for secure and reliable communication between services handling real-time stock market data.
- Improved application performance by applying **dependency injection** and **SOLID principles**, enhancing code maintainability and scalability.

Achievement

- Honored with the **Pinnacle Performer Award** from the client for delivering exceptional quality and completing the project within a remarkably short timeframe
- Reduced database costs by **25%** through the implementation of **NoSQL (MongoDB)** for unstructured data storage.
- Improved real-time data processing efficiency by **35%** using **SignalR** and **RabbitMQ**.
- Enhanced user satisfaction by **20%** through **UI/UX improvements** and responsive design implementation.