Srinivas Musinuri
Full Stack Software Developer

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Summary

Full Stack Developer with 4 years of experience building high-performance, cloud-native applications across healthcare, aviation and finance domains. Expertise in microservices architecture, RESTful APIs, and AWS, with a proven track record of optimizing systems for scalability and reducing operational costs. Led cross-functional teams to develop user-centric solutions, driving product growth and performance improvements. Driven by solving complex technical problems and continuously mastering emerging technologies

Education

Master's in Computer Science   **Aug 2023 - May 2025**
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++, java,.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(AZ-900,DP-900)(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
Project Management: Agile Methodologies, Scrum, Kanban, JIRA, CI/CD Implementation, TDD, Scrum

Experience

Virtusa, India   **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.
- Developed and optimized **RESTful APIs** for patient records, appointments, and billing systems, ensuring **HIPAA compliance** through secure authentication methods like **JWT** and **SSL/TLS encryption**, ultimately enhancing system trustworthiness and data integrity.
- Integrated **Azure Functions** to automate business processes like appointment reminders and status updates, reducing manual overhead and improving overall system efficiency.
- Utilized **Azure Blob Storage** for secure storage and fast retrieval of medical images and patient documents.
- Deployed scalable applications on **Azure App Services**, automating the deployment pipeline using **Azure DevOps** to ensure zero downtime during updates.
- 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.
- 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.
- Collaborated with cross-functional teams, including **UI/UX**, **DevOps**, and Product Managers, to deliver scalable, user-centric applications.

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. Additionally, hosted the application on **SonarQube**, achieving **100% code coverage** and full compliance with coding standards and best practices.

Sonata Software, India   **Aug 2019 – Oct 2020**
.Net Developer
- Developed the core application logic for a flight MRO application for the largest aviation client (Pratt & Whitney), using **ASP.NET Core**, ensuring efficient data flow and real-time interaction for engine performance and repair monitoring.
- Led the migration of legacy systems to a microservices architecture, resulting in a 40% reduction in downtime.
- Familiar with **UNIX/Linux** environments for managing servers, running deployment scripts, and troubleshooting
- Created **NoSQL (MongoDB)** databases to store engine diagnostic and maintenance data, improving retrieval speeds and reducing operational costs compared to traditional relational databases.
- Automated report generation for engine health and maintenance status using **SSRS (SQL Server Reporting Services)**, improving operational decision-making and reducing manual efforts.
- 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 engine diagnostics and maintenance scheduling.
- 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**.