

Ravalika K

Full Stack .NET Developer

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SUMMARY

Full Stack .NET Developer with around 5+ years of experience specializing in developing high-performance web applications using C#, .NET Core 8, ASP.NET MVC, and ASP.NET Web API. Proficient in building interactive front-end solutions with Angular 12+, ReactJS, HTML5, CSS3, TypeScript, Bootstrap, and Kendo UI, delivering responsive and user-friendly interfaces. Skilled in backend development with RESTful API design, secure authentication (JWT, OAuth2), and integration of messaging systems like RabbitMQ and Kafka for real-time processing. Hands-on experience with Microsoft Azure and AWS services, including App Services, Functions, Lambda, API Management, Blob Storage, S3, Key Vault, and Azure AD, along with CI/CD automation via Azure DevOps, GitHub Actions, AWS CodePipeline, and Docker. Adept in working with MS SQL Server, MongoDB, and Cosmos DB, as well as implementing Infrastructure-as-Code using Terraform and container orchestration with Azure Kubernetes Service (AKS). Experienced in applying Test-Driven Development (TDD) practices with NUnit, xUnit, Jasmine, and Karma to deliver maintainable, high-quality solutions. Well-versed in Agile workflows with tools like JIRA and Azure Boards, with a strong foundation in C, C++, and Python. Demonstrates end-to-end ownership of projects across all phases of the Software Development Life Cycle (SDLC).

EDUCATION

University of Missouri-Kansas City, Missouri, USA
Master of Science in Computer Science

TECHNICAL SKILLS

Programming Languages: C#, C, C++, JavaScript (OOP, Functional), TypeScript, SQL, JSON, XML , Java
Frontend: Angular, ReactJS, HTML 5, CSS 3, Bootstrap, Kendo UI
Backend & Frameworks: .NET Core 8, .NET Framework 4.7, ASP.NET MVC/Web API, Entity Framework, Dapper, RESTful APIs
Cloud Platforms: Microsoft Azure (App Services, Functions, Key Vault, API Management, Blob Storage), AWS (EC2, S3, Lambda)
DevOps & CI/CD: Azure DevOps, GitHub Actions, Jenkins, Docker, Terraform, Kubernetes
Testing: NUnit, xUnit, Jasmine, Karma, Postman
Databases: MYSQL Server, PostgreSQL, MongoDB, Cosmos DB, Redis
Messaging & Streaming: RabbitMQ, Kafka, Azure Service Bus
Monitoring & Logging: Serilog, NLog, Application Insights, DataDog
Tools & Methodologies: Visual Studio, VS Code, Git, Jira, Azure Boards, Agile, Scrum, SDLC, Microservices
Soft skills: Service oriented, Adaptive

PROFESSIONAL EXPERIENCE

PNC Financial, St.Louis, USA

May 2024 – Present

Full Stack .NET Developer

- Designed and implemented scalable **RESTful APIs** using **ASP.NET Web API**, enabling seamless integration between microservices in a multi-tenant environment.
- Designed and managed relational databases using **SQL Server**, including writing complex queries, stored procedures, and database optimization and implementing Entity Framework for seamless database communication with the backend.
- Developed and consumed **RESTful web services** to integrate various systems and services, ensuring secure and efficient communication and implement third-party APIs and data sources into financial applications.
- Implemented **Azure-based** microservices architecture, resulting in a **40%** improvement in application performance and scalability.
- Developed an interactive web portal using **Blazor** for a financial client, enabling dynamic user interfaces and real-time data updates. Integrated **RESTful APIs** built in .NET Core to ensure seamless back-end communication.
- Used **HTML5, CSS3, JavaScript, TypeScript**, and front-end frameworks like **React.js** or **Angular** to create user-friendly interfaces.
- Developed and deployed **.NET** applications on both **Windows** and **Linux** servers, optimizing configurations to ensure platform compatibility.
- Used **Git** or **TFS** for version control, ensuring code consistency and collaborative development with other team members.
- Write unit tests using **xUnit** or **NUnit** to ensure code reliability by adhering to **TDD** principles and conducted end-to-end testing, debugging, and troubleshooting of both backend and frontend components.
- Integrated security practices into **CI/CD** pipelines using **Azure DevOps**, incorporating automated vulnerability scanning and code quality checks to align with **DevSecOps** principles.
- Automated deployment of Azure resources using **Terraform** and **Azure Resource Manager (ARM) templates**, ensuring consistent and repeatable infrastructure provisioning.
- Integrated **Kafka** producers and consumers in **.NET** applications to process and analyze real-time data streams, enhancing system responsiveness.
- Designed and implemented a microservices-based architecture using **.NET Core**, incorporating event-driven patterns with **Azure Event Hub**. This resulted in a **40%** improvement in system scalability and reduced coupling between services.
- Designed and developed desktop applications using **WinForms**, ensuring a responsive and user-friendly interface and Participate in **Scrum** or **Agile** sprints, including daily standups, sprint planning, and retrospective meetings.
- Implemented responsive user interfaces with **HTML, CSS**, and **JavaScript frameworks** (e.g., **Angular, React, Vue.js**).
- Build and maintain dynamic web applications using **ASP.NET WebForms**, focusing on creating interactive user experiences.
- Creating and maintaining multiple web applications using **ASP.NET MVC** with **MVVM** design pattern and style, creating several **N-tier** solutions along with the use of the **jQuery, MVC** architecture in Clean/Onion design pattern.
- Designed schemas and implemented CRUD operations with **MongoDB** in **.NET** applications, ensuring efficient data retrieval.
- Collaborated with **DevOps** teams to implement **CI/CD** pipelines for automated deployment and Use containerization technologies (e.g., **Docker**) to streamline development and deployment processes.
- Environment:** **ASP.NET Core, React.js, Angular, SQL Server, xUnit, NUnit, JIRA, RESTful APIs, HTML5, CSS3, JavaScript, Bootstrap, Material UI, Mongo DB, Jenkins, Azure DevOps, OAuth, JWT, Scrum, Agile, UX/UI, APIs, Docker, CI/CD, WinForms, Web forms, Visual Studio, Kafka.**

Full Stack .NET Developer

- Designed and developed robust web applications using **ASP.NET** Core and **ASP.NET Web Forms**, ensuring responsiveness and a user-friendly experience.
- Diagnosed and resolved critical issues in production environments, implementing solutions to enhance reliability and scalability.
- Wrote complex **SQL queries** for data extraction, manipulation, and reporting from relational databases.
- Worked with relational **databases** (e.g., **PostgreSQL**, **MySQL**) to design and manage data schemas, perform queries, and optimize performance.
- Utilized **AWS** for application deployment, storage, and serverless architecture (e.g., **AWS Lambda**).
- Set up and maintained **CI/CD pipelines** using Jenkins or similar tools for automated testing and deployment and Collaborate using version control systems like **Git** and **SVN**.
- Worked closely with cross-functional teams, including **UI/UX** designers, product managers, and other developer and Participate in **Agile methodologies** (e.g., **Scrum**, **Kanban**) for project management.
- Utilized **MongoDB** as a **NoSQL** database to store and manage unstructured data for specific microservices, optimizing query performance for large datasets.
- Designed and implemented serverless applications using **AWS Lambda** to enhance scalability and reduce costs.
- Implemented monitoring solutions using **AWS CloudWatch** to track Lambda performance and application health.
- Created and maintained semantic **HTML5** markup and **CSS** style sheets for web applications to ensure accessibility and **SEO** best practices. Wrote unit and integration tests for **JavaScript** components using frameworks like **Jest** or **Mocha** to ensure code quality and functionality.
- Responsible for implementing two screens from end to end. The **MVC** application also utilized **Razor** and **LINQ**. Involved in Deployment and Troubleshooting issues in the application during Go Live.

Environment: JavaScript, Jest, Angular, React, HTML5, CSS, AWS CloudWatch, APIs, Amazon RDS, DynamoDB, Scrum, Kanban, Junit, Git, CI/CD, AWS, Azure services, PostgreSQL, MySQL, AWS Lambda, JPA, Angular, React, RESTful APIs, Java, Mongo DB.

Full Stack Developer

- Worked with **Agile development** methodologies and delivered accepted functionality in each sprint.
- Played key role in feature implementation and enhancement, code refactoring and defect fixing.
- Designed and developed Hybrid-Single Page Application using **C# 5.0**, **.NET Framework 4.5**, **ASP.NET MVC 5**, and **Angular JS 1.5**.
- Led full-stack development of web applications using **.NET Core**, **C#**, and **React**, with a strong focus on enhancing customer experience through high-quality, efficient, and scalable solutions. Implemented performance optimizations that improved application response times by 40%, directly contributing to increased user satisfaction.
- Consumed **SOAP APIs** from enterprise customer system and **RESTful APIs** provided by other applications in the portfolio, also created **W&C RESTful APIs**.
- Provided database connectivity using Entity **Framework 6.0**, **LINQ**, designed stored procedures and views at the back end.
- Contributed to data migration from **Oracle DB to SQL Server** using **PL/SQL** and **T/SQL**.
- Used **JSON web** token to do user authentication and secure information exchange.
- Designed unit testing module with NUnit to test the application performance and availability and heavily involved in code review, build and deployment with **GIT**, **Jenkins**.

Environment: .NET Framework 4.5, Microsoft Visual Studio 2015, C# 5.0, ASP.NET 4.5, MVC 5.0, Entity Framework 6.0, Web API, SQL Server 2014, HTML5, CSS3, JavaScript, AngularJS 1.5, AJAX, Java, IIS 7, LINQ, SSIS, SSRS, Git, Agile, Jenkins, NUnit.

ACHIEVEMENTS & CERTIFICATIONS

- [AWS Certified Developer- Associate](#)