Surendra Rayapati

Lead software engineer Angular |. Net8 | ASP.Net Core | SQL Server| JavaScript / Type script | TDD | Azure Cloud

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Raleigh, North Carolina

Summary

- Architected and developed large-scale, high-performance web applications and products across healthcare, finance, insurance, and content management domains using the Microsoft technology stack.
- Mastered ASP.NET, C#, .NET Core, and .NET 6/8, consistently delivering scalable and robust solutions.
- Led architecture design for Angular-based applications and products, showcasing expertise in frontend development.
- Created responsive and intuitive user interfaces using HTML5, CSS3, TypeScript, Angular, JSON, and Bootstrap.
- Implemented full-stack solutions using C#, WPF, ASP.NET MVC, WCF, LINQ, Web Services, and various .NET Framework versions (4.5 to 1.x).
- Designed and optimized database solutions using SQL Server 2008/2005/2000 and Oracle PL/SQL 10g/9i/8i, focusing on performance tuning and complex query optimization.
- Managed product releases for major versions, service packs, and hotfixes, implementing effective branching strategies.
- Excelled in Agile (Scrum) and Waterfall methodologies, as well as Test-Driven Development (TDD).
- Developed reusable Angular components and services, integrating REST APIs and implementing Jasmine for unit testing.
- Leveraged advanced .NET features like LINQ and Lambda expressions to optimize data operations.
- Implemented efficient data access layers using ADO.NET, working with Data Adapters, Data Sets, and Data Readers.
- Utilized Azure Cloud services, Azure Functions, and CosmosDB for cloud-native solutions.
- Demonstrated proficiency in version control systems including Team Foundation Server 2010, Git, and Azure DevOps.
- Conducted thorough unit testing using NUnit and MS Unit Tests frameworks.
- Excelled in requirements gathering, analysis, and translating business needs into technical solutions.
- Consistently delivered high-quality code while adhering to best practices and design patterns.
- Exhibited strong communication skills, effectively articulating complex technical concepts to diverse stakeholders.

Work Experience

NC DOT   Mar 2024 - Now

Senior software engineer | Raleigh, North Carolina, USA

NCDOT modernizations applications

Responsibilities:

- Expertly translated complex NCDOT requirements into concise, actionable user stories, creating a comprehensive product backlog that aligned with project goals.
- Actively participated in all sprint ceremonies as an integral part of the Agile process, ensuring smooth project delivery and team synchronization.
- Leveraged the latest .NET 8 framework to engineer robust and scalable APIs, incorporating best

practices and optimizing performance.

- Spearheaded initiatives to reduce technical debt, implementing strategies that improved code quality and maintainability across the project.
- Designed and implemented cutting-edge user interfaces using a modern tech stack, including HTML5, CSS3, TypeScript, Angular, JSON, and Bootstrap, resulting in responsive, intuitive, and visually appealing front-end solutions.
- Implemented NGRX for effective state management in Angular applications, enhancing application predictability and ease of debugging.
- Architected reusable components, significantly reducing development time and improving code consistency, while conducting training sessions to ensure effective utilization by the team.
- Developed comprehensive Jasmine unit tests to maintain high code quality standards, achieving substantial code coverage and reducing potential bugs in production.
- Created optimized stored procedures and functions for SQL Server, focusing on performance enhancements that led to faster query execution times.
- Established and enforced technology standards for both .NET and Angular projects, ensuring consistency and best practices across the team.
- Designed and developed .NET 8 solutions for building not only APIs but also efficient background services, demonstrating my full-stack capabilities and deep understanding of the .NET ecosystem.

Technologies: .Net 8, JSON schemas, Azure Cloud, SQL Server

Lead Software Engineer   May 2023 - Mar 2024
OpenText | Hyderabad, Telangana, India

Project: File360
File360 enables organizations to regain control over critical information, improve the quality of business decisions and increase operational and process efficiency.

Responsibilities:

- Assumed responsibility for transitioning the product handover from the On-site team, which encompasses diverse applications such as administration, design, reporting, and diagnostics, and facilitated team members in understanding and utilization of the product.
- Involved in backlog grooming, designing, and developing features for File360 23.4
- Developed multiple Web APIs, and designed endpoints with Swagger.
- Designed and implemented user interface using HTML5, CSS3, Typescript, Angular, JSON and Bootstrap.
- Designed and developed applications to consume RESTful Apis and web services.
- Extensively used postman to test the API calls.
- Implemented feature requests in File360 win client application, built on top WPF.
- Worked on WinForms application for document profiling client application enhancements.
- Created database tables, stored procedures for responding to the requests coming from the APIs.
- Used SQL Profiler for capturing the query activity and identify costly operations.
- Participated and provided input in code optimization, performance related discussions and JAD sessions.
- Involved in data analysis/validation and documented every aspect of the process for future reference.
- Implemented Unit Testing, Integration Testing and System Testing using NUNIT.
- Collaborated with Product owner and sales team to understand the requirements.
- Performed code walkthrough/review to ensure all code paths were covered and dead codes were removed, and ensure no non-relevant code is added.

- Used Blackbuck, fortify, web inspect for scanning the application for security vulnerabilities.

Technologies: .Net Core 3.1, SQL Server, Azure Cloud, Docker, SQL Server, Angular

Staff Software Engineer   Oct 2021-May 2023
Micron Technology

Responsibilities:

- Spearheaded application development using Micron's proprietary internal framework, significantly enhancing efficiency and productivity across multiple projects.
- Architected and implemented a suite of reusable components, while providing strategic guidance on application architecture, resulting in a 30% reduction in development time.
- Collaborated extensively with product owners to transform complex requirements into clear, actionable user stories, and provided accurate estimations for product backlog implementation.
- Leveraged over a decade of Agile development expertise to optimize product development cycles, resulting in increased client satisfaction and a 25% improvement in project delivery times.
- Designed and implemented advanced Power BI reports integrated with Azure Application Insights, providing real-time performance metrics and actionable insights.
- Conducted comprehensive Angular training sessions for the development team, resulting in a 40% increase in Angular proficiency across the department.
- Led workshops on engineering best practices and methodologies, fostering a culture of continuous improvement and technical excellence within the team.
- Implemented NGRX for robust state management in large-scale Angular applications, improving application performance and maintainability.
- Established and enforced custom lint rules for Angular applications, integrating them into the Azure pipeline to ensure consistent code quality and adherence to best practices.
- Configured and integrated Sonar analysis for .NET Core applications within the CI/CD pipeline, centralizing code quality metrics and enhancing overall software reliability.

Technologies: .Net 6, Angular 14, HighCharts, AgGrid, Big Query, Azure Cloud

Senio Software Engineer   Aug 2019 - Oct 2021
EPAM Systems | Hyderabad, India

Loop IT: It's a product developed for healthcare industry clients to provide a feedback platform for the clients.

Responsibilities:

- Actively participated in product design and planning, collaborating with Business Analysts to fully understand requirements and address any functional gaps.
- Led the development of Angular application architecture, identifying libraries to facilitate rapid application development.
- Created reusable components for grids and controls, enhancing development efficiency and consistency.
- Developed dynamic forms for the application, improving user interaction and data handling.
- Achieved over 70% code coverage by writing comprehensive Jasmine test cases, ensuring high-quality and reliable code.
- Trained and guided the team in Angular application development, fostering skill growth and technical proficiency.
- Utilized Node.js to create mock APIs, streamlining Angular app development and testing processes.
- Developed .NET Core services for the application using Azure serverless programming, enhancing scalability and performance.
- Engaged in every phase of product development, ensuring seamless integration and delivery of high-

quality solutions.

Technologies: Angular, Angular Material, Bootstrap, .Net Core, Cosmos DB, SQL Server.

Lead Software Engineer
OpenText | Hyderabad, India

eDocs: EDocs is the content management product of OpenText Technologies with most of the customers in the law industry. It has various clients like Office client, Outlook, Windows Explorer Extension and SMART UI. I've been part of EDOCS SMART UI development for with Angular 6 and typescript. Also involved in enhancing EDOCs product features and maintenance which involves work on .Net MVC web application, batch jobs, and SSIS packages and python.

Responsibilities:

- Swiftly responded to feature requests and bug reports for the product's web client, implementing necessary changes in the ASP.NET Web application developed in C#.
- Designed and created optimized stored procedures and dynamic SQL queries to enhance database performance and functionality.
- Implemented new features for OpenText eDocs smart UI, developing responsive solutions for mobile, tablet, and desktop platforms, ensuring a seamless hybrid application experience.
- Developed and maintained Web APIs to address feature requests and resolve bugs, improving overall system functionality and user experience.
- Authored comprehensive unit tests for cross-device functionality, ensuring consistent performance across multiple platforms.
- Led the implementation of new features in the eDocs web application, including the design of technical specifications to guide development efforts.
- Conducted thorough peer reviews and testing, fostering a culture of quality and collaboration within the team.
- Engineered PowerShell scripts to automate the development build process, significantly improving efficiency and reducing manual errors.

Technologies: ASP.Net, SQL server, WCF, Web API, Angular 12, Bootstrap. CSS3. Java script.

Lead Software Engineer
OpenText | Hyderabad, India

MBPM: It's a business process management product of OpenText Technologies. It's developed to automate the business processes followed by organizations.

Responsibilities:

- Designed and developed RESTful services using Web API, ensuring robust and scalable backend solutions.
- Created Angular applications optimized for compatibility across desktop, tablet, and mobile platforms, delivering a seamless user experience.
- Built reusable components to streamline the development and maintenance of reporting features, enhancing productivity and consistency.
- Conducted training sessions to familiarize the team with Angular, promoting skill development and technical proficiency.
- Performed thorough code reviews for peers, ensuring adherence to best practices and maintaining high code quality.
- Collaborated with UX designers to understand design requirements and discuss user experience

improvements, ensuring alignment with project goals.
- Coordinated with Product Management and participated in sprint planning to prepare for upcoming releases of product service packs and hot fixes, ensuring timely and efficient delivery.

Technologies: ASP.Net Web API, ASP.Net, SQL server, Angular, Bootstrap, HTML 5, JavaScript

Senior Software Engineer   Nov 2010 - Feb 2016
Wipro | Hyderabad, India

Percana: It's a comprehensive enterprise solution that can be used to manage a wide range of Life and Pension products.

Responsibilities:

- Developed sophisticated Windows client applications using Windows Presentation Foundation (WPF), delivering robust and user-friendly desktop solutions.
- Implemented WCF SOAP services, while gaining valuable exposure to web interface development using MVC and Web API frameworks.
- Engineered a Windows service-based application for efficient job scheduling, demonstrating proficiency in background processing and task automation.
- Contributed to the development of a Windows-based back-office application utilizing client-server architecture, with WCF implemented at the server layer for seamless communication.
- Actively participated in product feature discussions, particularly those involving complex insurance policy business logic, showcasing both technical expertise and domain knowledge.
- Significantly improved database query performance through optimization techniques, enhancing overall application responsiveness and user experience.

Technologies: ASP.Net, Web API, SQL Server, WCF, SQL Server

AHM eQuote: It's a system where the business users can request a quotation to supplier for spare parts and compare them before finalizing the supplier.

Responsibilities:

- Played a key role in the full software development lifecycle, including analysis, development, unit testing, QA support, server deployment, and comprehensive documentation of design, test cases, and reports.
- Developed robust components for business and data tiers using C#.NET, ADO.NET, and Entity Framework, demonstrating strong proficiency in backend technologies.
- Authored efficient stored procedures and functions to optimize database operations and enhance application performance.
- Contributed to the creation of wireframes for customer walkthroughs, showcasing an ability to bridge technical implementation with user experience design.
- Crafted complex SQL queries and stored procedures to meet diverse data retrieval and manipulation requirements, highlighting advanced database skills.

Technologies: ASP.NET MVC, SQL Server, jQuery, HTML 5.

Core Skills

Dotnet 8, Angular 12-16, Jasmine Framework, Microsoft Azure, ASP.NET Core, HTML, Docker, ASP.NET MVC, C#, JavaScript, Microsoft SQL Server, HTML5, Bootstrap, Node.js, CSS, Python

Education

Birla Institute of Technology and Science, Pilani

Master's degree Computer Software Engineering

JKC College, Guntur

Bachelor of Science (B.Sc.) Mathematics, Electronics and Computers

Certificates

Microsoft Certified: Azure Developer Associate

Microsoft

NodeJS and Mean stack for Beginners - In easy way

Udemy