SINDHU KATTA

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PROFESSIONAL SUMMARY

Senior Full-Stack Software Engineer with 8 years of experience designing and optimizing scalable web applications and APIs. Expert in developing intuitive React and TypeScript interfaces, complemented by backend proficiency in Python and C++ with AWS integration. Skilled in agile development and performance tuning, with a proven record in delivering robust, user-focused solutions. Passionate about advancing autonomous vehicle technology.

Technical Expertise

- **Microsoft Technologies**: .NET 6, .NET 4.8, .NET 4.6, .NET 4.5, .NET 4.0, .NET 3.5, MS Visual Studio, ASP.NET (MVC 6/5/4), C#, VB.NET, LINQ, WCF, Razor View Engine, WinForms
- **Frontend Development:** JavaScript, TypeScript, Angular 12+, Angular (10/9/8), React.js, jQuery, HTML5, CSS3, Bootstrap, AJAX, Knock-out.js, Ember.js, Backbone.js, Require.js, Telerik Rad Controls, Xamarin, .Net MAUI.
- **Backend & Database Management:** SQL Server, Oracle DB, PL/SQL, T-SQL, ADO.NET, Entity Framework, NHibernate ORM, Relational Databases, SQL
- **Cloud & DevOps:** Azure, AWS, Google Cloud Platform, OpenStack, OpenShift
- **Security & Authentication:** Blazor applications
- **Architectural Design Patterns:** MVC, MVVM, Two-Tier, Three-Tier Architecture, Design Patterns, OOP (Object-Oriented Programming)
- **API Development & Integration:** RESTful Web APIs, RESTful APIs, RESTful Microservices, Web Services, SOAP
- **E-commerce & SPA Development:** Single Page Applications, JavaScript MEAN stack, Web-based Applications
- **IoT & Embedded Systems:** Arduino R3 Microcontrollers
- **Reporting & Business Intelligence:** Crystal Reports, SSIS, SSRS
- **Development Tools & Frameworks:** Microsoft Application Building Blocks, IntelliJ, VS Code, browser extensions development, custom ASP.NET security infrastructure
- **Version Control & CI/CD:** Git, GitHub, Azure DevOps
- **Software Methodologies:** Agile (Scrum), Test-Driven Development (TDD), Waterfall
- **Soft Skills:** Client Interaction, Communication Skills

PROFESSIONAL EXPERIENCE

The Home Depo   **Jul 2024 - Present**

.Net Full Stack Developer   *Atlanta, GA*

Developed and maintained robust e-commerce platforms using ASP.NET MVC and C#, collaborating closely with cross-functional teams in agile environments to deliver scalable solutions.

- Engineered a multi-tier application in C# with .NET Core 2.0, ensuring a clean separation of concerns and adherence to industry best practices in a 3-tier architecture.
- Enhanced UI design functionality by leveraging Angular 9, Bootstrap, CSS selectors, and HTML elements to optimize component display and user interaction.
- Designed and implemented web-based ASP.NET Internet applications integrated with firm-wide SQL databases, ensuring reliable data access.
- Constructed RESTful services using Web API Core to streamline data communication across distributed systems.
- Performed code security checks with HP Fortify, generating vulnerability reports and remediating identified issues using industry standard correction methods.
- Integrated Auto Mapper to efficiently map DB Entities to Domain Entities, facilitating seamless data communication and business logic implementation.
- Managed and updated MS SQL databases, including SSRS systems, stored procedures, and indices, to support both new and legacy applications.
- Utilized Entity Framework Core 2.0 with the DB First Approach to maintain data integrity and performance standards.
- Developed interactive front-end elements using HTML5, JavaScript, and Kendo UI, enhancing data visualization through grids, charts, and schedulers while employing NHibernate ORM for data access.
- Implemented a robust logging mechanism using Application Insights for effective tracing and performance monitoring.
- Delivered reusable TypeScript components and services to consume REST APIs within an Angular 9+ component-based architecture, aligning with modern UI development practices.
- Constructed stable React components and functions, integrating React-Router to build a seamless single-page application and enhance client-side interface performance.
- Built and deployed REST APIs using .NET Core/.NET Framework on Azure, incorporating HTTP methods (GET, POST) for secure

data transactions and two-step authentication for compliance.

- Developed microservice-based solutions interacting over REST while leveraging AWS Cloud services, including CloudWatch for production monitoring and alerting, and maintained AWS S3, SNS, and SQS infrastructure.
- Executed cloud migration strategies by converting .NET applications to Microsoft Azure Cloud Service Projects, ensuring optimal performance using Azure Queues, App Service, and SQL Azure.
- Pioneered mobile application development for Android and iOS using Xamarin and Visual Studio in C#, aligning with modern cross-platform trends.
- Ensured rigorous source code management and documentation through Microsoft Team Foundation Server (TFS) and active participation in Agile (Scrum) and Test-Driven Development (TDD) practices.

Edward Jones   **Apr 2023 - Jun 2024**
.Net Full Stack Developer   *St. Louis, MO*
Contributed to the development of high-traffic web applications using ASP.NET MVC and C#, ensuring scalability and performance in a collaborative agile environment.

- Collaborated with architectural teams to design and develop applications based on .NET Core framework and Microservices, implementing business logic with C# to meet client requirements.
- Coordinated with business units and market analysts to accurately assess market requirements and adapt technical solutions accordingly.
- Applied OOP principles to refactor and re-design applications, improving maintainability and code reusability.
- Customized workflow logic using Python to override standard business processes, enhancing process flexibility.
- Developed engaging user interfaces using JavaScript, Angular 7, TypeScript, CSS, and HTML, integrating NHibernate and PL/SQL for seamless data operations.
- Created Inventory Exposure Monitor screens employing WPF and the MVVM pattern with C# for improved data presentation and usability.
- Designed intuitive user interfaces for web applications using MVC, React.js, Bootstrap, JavaScript, jQuery, HTML5, CSS, and JSON, aligning with modern UI design standards.
- Built a prototype for an IoT device to transmit data to an internet platform, demonstrating innovative application of emerging technologies.
- Crafted complex SQL queries, stored procedures, triggers, and views in T-SQL to optimize database performance and data retrieval.
- Developed user interfaces with ASP.NET 2.0 and VB.NET code-behind, ensuring seamless integration of front-end design and back-end processing.
- Created client profile screens using WPF and MVVM with C#, facilitating the creation and management of legal entities and associated data.
- Employed XAML for view design with bindings linked directly to view models, ensuring clear separation of concerns in UI logic.
- Leveraged React Native to develop native mobile applications, expanding the organization's mobile platform capabilities.
- Performed rigorous unit testing using NUnit in a TDD environment, while also incorporating BDD practices with Spec Flow to streamline development cycles.
- Implemented synchronized data processing using RxJS Observables to achieve effective Publish/Subscribe patterns for real-time updates.
- Engineered a highly reliable cloud messaging service using Azure Service Bus, combining multithreading techniques to optimize CPU time allocation.
- Designed and maintained XML Web Services architectures (SOAP, WSDL, UDDI) on the .NET Framework 4.6 with C#, ensuring robust service orientation.
- Enhanced web pages with WPF-based animations and template controls, improving presentation and user engagement.
- Developed REST-based web services using a microservice architecture and Node.js, Express.js, and MongoDB (MERN stack) to provide scalable API solutions.
- Managed SQL Server database objects including tables, stored procedures, indexes, triggers, and cursors to support application data requirements.
- Optimized query performance using Lambda expressions and LINQ to efficiently retrieve and sort data as needed.
- Contributed to the migration of the M-spec test framework to Moq with X-unit, improving test coverage and reliability.
- Participated actively in daily scrums, sprint meetings, and sprint reviews within Agile (Scrum) methodologies to ensure continuous delivery of high-quality software.

SoftSol   **Aug 2019 - Jul 2022**
.Net Developer   *Hyderabad, India*
Led development initiatives within SoftSol, contributing to the successful delivery of high-performance web applications using ASP.NET MVC framework, ensuring scalability and responsiveness to client demands. Collaborated closely with interdisciplinary teams to analyze project requirements, providing valuable insights and contributing to strategic planning and execution.

- Worked on all phases of Software Development Life Cycle (SDLC) in AGILE environment.
- Design, Development and Testing of .NET Applications using .NET Framework 4.0.
- Developed user interfaces using ASP.NET MVC views, partial views, and multiple interfaces to transfer data into different server.
- Used XML efficiently for mapping the fields of CRM management system to different fields.
- Designed & Developed ASP.NET User Controls and used ASP.NET Web Forms controls.
- Extensively used State Management Techniques like Query Strings, Session's state to maintain state between the ASP.NET pages.

- Developed Desktop Modules for Dot Net Nuke in VB.Net.
- Efficiently displayed data in ASP.NET Grid View, along with a populating Details View and Data List along with update controls.
- Crafted reusable Blazor components and UI elements, enhancing project modularity and streamlining development workflows.
- Customized and extended ETL tools and frameworks within the .NET ecosystem, aligning functionality with organizational requirements.
- Exhibited Python proficiency through practical project experience, encompassing utilization of Python frameworks.
- Used LINQ to Entities, LINQ to SQL, Oracle DB, LINQ to XML and LINQ to Objects for retrieving the data proficiently.
- Developed Templates using HTML, NHibernate, SSRS (SQL Server Reporting Services) CSS, Bootstrap, and JavaScript.
- Involved in Testing, Debugging, Tracing the application for errors, Documentation, and maintenance of the application.
- Used Team Foundation Server (TFS) as a Source code control.

Agility Softek **Jun 2016 - Aug 2019**
.Net Developer *Hyderabad, India*
Developed a responsive, N-tier enterprise web app using ASP.NET MVC, C#.NET, Entity Framework, and Blazor, with REST API integration via jQuery AJAX. Built custom UI components with HTML5, CSS3, Bootstrap, and AngularJS, ensuring cross-device compatibility. Utilized WCF web services, Dependency Injection, and automated ETL workflows for efficiency. Followed Agile, TDD, and CI/CD for optimized development.

- Used jQuery ajax to make REST API calls to get/set data from different data sources.
- Used Dependency Injection Pattern to reduce the dependency coupling between classes.
- Developed a responsive and professional User centric web application which supports desktop browser and mobile device form factors using HTML5, Oracle DB, CSS3, JS, jQuery, Bootstrap and Angular.
- Involved in development of UI (User Interface) Pages using the HTML5, CSS3, Master Pages & ASP.NET Controls and ASP classic controls.
- Skilled problem solver with a track record of developing innovative solutions using .NET technologies, poised to apply these capabilities to Python development challenges.
- Used Windows Communication Foundation (WCF) web services for creating Service end points and Service contracts for the Application and consumed the web services.
- Proficient in both server-side and client-side Blazor development methodologies, delivering tailored user experiences aligned with project requisites.
- Involved in development of Web Forms, Classes using C#.NET that incorporates both N-tier architecture and database connectivity.
- Automated ETL tasks using .NET technologies, streamlining workflows and boosting productivity with scheduled jobs and event driven triggers.
- Designed and developed an application using Model View Controller (MVC) 4 application framework.
- Used the Object-Oriented Programming (OOP) techniques and created classes (C#.NET) for database access.
- Extensively involved in developing components for Business Layer and Data Layer.

EDUCATION

Southeast Missouri State university
Masters, Computer Science - Dec 2023

Institute of Aeronautical engineering
Bachelors, Computer science - May 2016