**Dinaker k**

**Senior .NET Developer**

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**Professional Summary**

* **Sr .NET Developer** with **10 years** of experience in creating scalable front-end and back-end systems.
* Expertise in SDLC methodologies such as Agile (Scrum) and Waterfall, ensuring timely delivery of high-quality software solutions.
* Experienced in .NET Core and .NET Framework, utilizing these platforms for building various applications.
* Skilled in ASP.NET Core and ASP.NET core MVC for creating responsive and high-performance web applications.
* Hands-on experience with Node.js for server-side scripting and building RESTful services.
* Experienced in building and integrating RESTful APIs with JSON and SOAP with XML for robust application interfaces.
* Proficient in managing APIs and integrating advanced cloud technologies.
* Proficient in .NET technologies, including C#, multithreading for concurrent processing, and advanced collections for optimized data handling.
* Proficient in Microservices, Onion Architecture, and Layered Architecture to design scalable and maintainable systems.
* Skilled in design patterns such as Factory and Singleton and adept at using UML diagrams, including use case diagrams, for visualizing design specifications.
* Proficiently utilized ORM frameworks, including ADO.NET, Entity Framework, and EF Core, to streamline DB interactions, enhance data modeling, and optimize overall data access performance
* Experienced with AWS, Azure and Google Cloud Platform for deploying and managing cloud resources, specializing in serverless computing with AWS Lambda, Azure Functions and Google Cloud Functions to build and maintain scalable, event-driven applications.
* Implemented robust security measures integrating OAuth2 for secure authorization, SSL for encrypted communication, and JWT for efficient and token-based authentication.
* Skilled in Angular, ReactJS, and TypeScript, understanding specific features like components, directives, services, JSX, hooks, and DOM manipulation.
* Expert in MS SQL Server, T-SQL, MySQL, and PostgreSQL for relational databases and MongoDB and Azure Cosmos DB for NoSQL solutions.
* Experience with Azure API Management, AWS API Gateway and NGINX for managing, monitoring and scaling APIs.
* Experienced with IIS, Azure App Service, and containerization using Docker with AKS for application hosting and management.
* Hands-on experience in implementing message queues using MSMQ, RabbitMQ and Azure Service Bus for asynchronous processing and system decoupling.
* Experienced with Azure DevOps, Jenkins, and GitLab CI/CD to automate the software delivery process.
* Proficient in Docker and Kubernetes for managing containerized applications and automating deployment, scaling and management of containerized applications.
* Proficient in using GitHub, VSTS/TFS, BitBucket, GitLab, and SVN for source code management and team collaboration.
* Adept in using Splunk, AppDynamics, Application Insights and New Relic for application monitoring and performance tuning.
* Utilizes tools such as Confluence, GitLab Wiki, BitBucket Wiki and MS SharePoint for documentation management and collaboration. Utilizes Jira, GitLab Issues, Trello, and ServiceNow for issue tracking and project management.
* Proficient in front-end/UI testing frameworks such as Jasmine and Karma.
* Skilled in XUnit, NUnit, and MS Test for comprehensive back-end testing.

**Education:**

Bachelor’s in CS, JNTU, Hyderabad, India – 2013

**Technical Skills:**

**.NET Technologies:** .Net Framework (4.8/4.7/4.5.1/4.5/3.5/3.0), ASP.NET Core Web API, MVC, ASP.NET (4.5/4.0/3.5/2.0/1.1/1.0), Microservices, ADO.NET, Entity Framework 6.0, LINQ, WCF.

**Web Technologies:**  JavaScript, Angular 2/4/5/6/7/8/10/12/14/17, React.js, Ember.js, Node.js, XML, AJAX, jQuery.

**Languages:** C#, VB.Net, SQL, T-SQL, PL/SQL.

**ORM Framework:** ADO.NET, Entity Framework, Entity Framework Core.

**Testing Framework:** NUnit, XUnit, Karma, Jasmine, Jest, Mocha, Chai, Postman, SOAP UI, Swagger UI.

**Cloud:** AWS, Azure, GCP

**Protocols:** SOAP, REST, HTTP/S, TCP/IP.

**Version Control:** Team Foundation Server, Git and SVN.

**Methodologies:** Agile

**Technologies:** SOA, SPA, (TDD & Event Driven), Design Patterns, Cloud (Azure), Service bus, Windows service.

**Database:**  MSSQL 2012/14/16/19, SSRS, SSIS. PostgreSQL, MongoDB, Oracle

**Tools:** Visual Studio, TFS, VSTS/Azure DevOps, ReSharper, Git, IIS, Visual Studio Code, SOAP UI, Postman, LINQ Pad, Microsoft Visio, Xcode, Android Studio

**Professional Experience**

**Client:** **Fannie Mae, Reston, VA Sept 2022 to Present**

**Senior .NET Developer**

**Project Responsibilities:**

* Led software development teams using **Agile/Sprint** and **SDLC** methodologies, guiding them to meet project milestones and deliver high-quality software on time, ensuring alignment with financial regulatory standards and business objectives.
* Implemented SOLID principles in the projects efficiently based on the requirements.
* Developed application as web-based N-tier application with UI in presentation layer using Visual Studio 2022 .Net core 8, ASP.NET MVC 8, business logic in middle layer using C#.Net and data service activities in backend using Oracle 18C
* Refined and optimized critical financial modules in the application to enhance performance, ensuring faster transaction processing and report generation under high loads.
* Led the migration of legacy financial systems from VB6 to .NET Core, improving system maintainability, performance, and scalability.
* Refactored and optimized outdated financial code, improving system reliability and reducing operational costs for financial institutions.
* Developed scalable and high-performance full-stack applications using .NET 8 for backend APIs and integrated with modern frontend frameworks such as Angular, and Vue.js.
* Built robust RESTful APIs and GraphQL services using ASP.NET Core 8, optimizing for performance, scalability, and security across multiple environments.
* Designed and developed versioned RESTful APIs in .NET 8 using ASP.NET Core 8 to provide backward compatibility while ensuring flexibility for future updates.
* Implemented OpenAPI/Swagger documentation and used API versioning techniques for seamless communication between clients and servers in diverse versions of the application.
* Architected and developed Microservices using .NET 8 to decompose monolithic applications into independently deployable and maintainable services, enabling faster releases and better scalability.
* Leveraged .NET 8’s improved performance features to ensure Microservices are optimized for both high throughput and low latency in large-scale distributed systems.
* Leveraged ASP.NET Core Identity in .NET 8 to provide robust user management, multi-factor authentication, and role-based access control (RBAC) across enterprise-level applications.
* Led the migration of various projects from .NET Framework **4.7** to **.NET 6**, and subsequently to **.NET 8**, enhancing performance and scalability.
* Implemented Microservices architecture to decompose complex applications into smaller, manageable services, improving modularity and enabling agile practices.
* Contributed to backend development, focusing on middleware services that improved system efficiency.
* Utilized **Angular** Material for modern UI components, ensuring cross-browser compatibility and a consistent user experience.
* Integrated **ASP.NET Web Forms** with **Angular 17.1.3** and **Blazor Web Assembly** for a seamless front-end experience.
* Implemented serverless architectures with Azure Functions and AWS Lambda in .NET 8, reducing operational overhead and scaling to handle variable workloads.
* Revitalized legacy applications with Angular 14 and JavaScript components while also developing a single-page application using Angular, Typescript, Webpack, and Grunt, showcasing proficiency in Web API, REST, and JSON-based development.
* Utilized Azure services, including Azure SQL database, Azure Logic Apps, Service Bus, and Document DB for application development and management.
* Deployed applications and services to Microsoft Azure, leveraging various Azure services for scalability, security, and high availability and utilized Docker for containerization, enabling consistent deployment and scalability across different environments.
* Implemented Azure Functions, a serverless compute service, for event-driven and scalable backend processing.
* Integrated Azure Key Vault for secure storage and management of application secrets and credentials.
* Utilized Azure App Service for hosting web applications, taking advantage of its scalability, high availability, and automatic OS patching features.
* Sound experience in Azure API Management and Integrated existing API's to Azure API management to get all the attributes like security, usage plans, throttling, analytics, monitoring, and alerts.
* Controlled the Angular ecosystem to deliver dynamic single-page applications optimized for performance and user experience in financial dashboards and trading platforms.
* Designed and maintained SQL Server databases, optimized for storing large volumes of transactional data, account histories, and audit logs.
* Developed stored procedures, triggers, and views to automate key financial processes such as account reconciliation and fraud detection.
* Oversaw the implementation of **SQL Server Integration Services (SSIS)** and **Azure Data Factory** in data migration projects, guaranteeing precise and effective data transformation and replication across various systems.
* Developed real-time reporting dashboards for financial stakeholders using Power BI and Tableau, helping senior management track KPIs and business performance.
* Leveraged Azure DevOps and CI/CD pipelines for streamlined deployments and improved operational efficiency.
* Designed and managed **Tableau** dashboards that provide real-time reporting and actionable insights.
* Integrated MongoDB as a NoSQL database, providing flexible and scalable data storage and retrieval capabilities.
* Integrated SonarQube for static code analysis and WhiteSource for vulnerability scanning to ensure code quality and security in .NET 8 deployments.
* Developed real-time applications using SignalR in .NET 8, enabling features like instant messaging, notifications, and live updates for web and mobile clients.
* Integrated Serilog, Nlog, and Application Insights for centralized logging and monitoring in .NET 8 applications, enabling efficient error tracking and real-time diagnostics.
* Designed and implemented scalable and resilient message queuing solutions using **Rabbit MQ** for .NET applications, enabling asynchronous communication between distributed components.
* Created **Python** scripts to automate **CI/CD** pipelines, improve deployment processes, and manage containerized applications in Azure Kubernetes Service (AKS).
* Utilized C# 11 features introduced in .NET 8 such as list patterns, required members, and raw string literals to improve code readability, reduce boilerplate, and implement more efficient data models.
* Utilized **JIRA** for task management, **Git** to manage version control and source code, enabling effective teamwork and maintaining an organized codebase.
* Utilized **Karma** and **Jasmine** to conduct end-to-end and component testing for the user interface, ensuring an uninterrupted user experience.
* **Test-driven development (TDD)** techniques were applied to .NET Core projects, requiring unit tests to be written before code implementation to promote reliable and error-free development.

**Environment:** ASP.Net Core 5.0, C#, MVC, WCF, WEB API, SQL Server, Visual Studio 2022, Visual Studio Code 2018, XML, IIS 7.5, HTML5, CSS3, JavaScript, jQuery, Angular 17.1.3, PaaS, Typescript, Redux, Fiddler, Postman, SSRS, Kafka, RabbitMQ, GIT, Team Foundation Server (TFS) and Agile Methodology.

**Client: Centene Corporation, St Louis, MO July 2019 to Aug 2022**

**Senior .NET Developer**

**Project Responsibilities:**

* Executed full software development lifecycles using **SDLC** and **Agile** methodologies, ensuring healthcare projects meet all the deadlines and deliver high-quality output aligned with regulatory and business objectives.
* Developed and maintained full-stack applications using .NET 6 for backend services, integrating with frontend frameworks such as Angular, and Vue.js.
* Built high-performance RESTful APIs using ASP.NET Core 6, implementing efficient routing, middleware, and request-response handling to ensure scalability and low-latency responses.
* Led the development of server-side healthcare applications using **.NET 6**, harnessing features like dependency injection, asynchronous programming, and the Kestrel server for enhanced scalability and performance.
* Developed and maintained a complex healthcare application using **.NET technologies** such as **C#,** focusing on advanced features like **Lambda** Expressions and **LINQ** to enhance the application efficiency and performance in a clinical and patient management system.
* Experienced in designing, developing, and integrating **FHIR** based solutions in healthcare environments.
* Followed HIPAA rule to share information as well maintained security.
* Integrated **Blazor Web Assembly** and **Blazor Hybrid Apps** to create dynamic, interactive user interfaces, ensuring a seamless experience for healthcare users across the web and native applications.
* Developed and implemented **Microservices** architecture utilizing **ASP.NET MVC 6.0 WebAPI** to enable independent scalability and deployment of functions such as invoicing and patient administration for a healthcare application.
* Deployed and managed database interactions using **Entity Framework Core** for **ORM**, and Repository Pattern and complex LINQ queries to optimize data access and manipulation within **Azure Cosmos DB**, ensuring efficient handling of patient, and clinical data.
* Designed and implemented Microservices using .NET 6 for improved scalability, modularity, and maintainability of large-scale applications.
* Utilized Docker for containerizing .NET 6 Microservices, deploying and managing them in Kubernetes for container orchestration, ensuring high availability and fault tolerance.
* Developed a robust application using **C#** within the .NET framework suite, implementing **Service-Oriented Architecture (SOA)** solutions to enhance modularity and interoperability.
* Developed and maintained robust **RESTful Web Services** using React services and ASP.NET Core Web API, enabling seamless integration and communication between various healthcare systems and third-party services.
* Developed rich, responsive user interfaces using **TypeScript**, **HTML**, **CSS**, **Bootstrap, Blazor** **Web Assembly** and advanced **Angular** **13** features like Modules, Directives and Routing to enhance user engagement and satisfaction in a healthcare management portal.
* Developed and managed secure **RESTful Web services** using **Angular Services** and JSON data format, facilitating easy connection between various medical systems.
* Designed dynamic forms and dashboards for the health application by integrating **Kendo** **UI** with **Angular 13** and **Blazor components**, increasing the effectiveness of user interactions and data management.
* Implemented **FHIR**-based APIs for standardized healthcare data exchange, ensuring seamless interoperability between electronic health record (EHR) systems and improving patient data accessibility.
* Implemented secure **WCF services** by utilizing **SSL/TLS** protocols to ensure data integrity and security across network transactions, maintaining compliance with healthcare data privacy regulations such as **HL7**. **Blazor** was leveraged for secure and interactive front-end processing.
* Managed database operations using **MS** **SQL Server**, optimizing queries and stored procedures to enhance performance and ensure efficient data handling in healthcare applications. **Blazor's two-way data binding** was used for efficient form processing and validation within healthcare workflows.
* Automated repetitive development tasks using **Python** and **PowerShell**, increasing efficiency and reducing manual errors in healthcare application deployment and maintenance.
* Developed and implemented **Kafka** producers and consumers to smoothly integrate **electronic health records**, enabling reliable data flow and minimizing system failures.
* Leveraged Microservices architecture, incorporating REST and AWS services
* Implemented serverless APIs using AWS API Gateway and AWS Lambda, enabling RESTful API development for .NET applications.
* Utilized AWS Elastic Beanstalk to deploy and manage .NET applications in a fully managed environment.
* Managed Docker images and containers, including building images, configuring AWS ECS repository, and deploying Docker images onto production servers using IIS 7.0.
* Designed robust backend data storage and retrieval through the integration of **MS** **SQL Server** with **ASP.NET Core** applications and Web Services. Managed seamless cross-service interactions through **Rabbit MQ**.
* Successfully implemented a complete Azure DevOps integration, automating and streamlining workflows.
* Implemented **JWT Token Authentication/Authorization** to communicate with the client (.NET Core MVC) and server (.NET Core API) in Angular applications.
* Directed container orchestration using **Docker** and **Azure Kubernetes Service (AKS)**, managing container lifecycle, scaling, and deployment across development and production environments in healthcare application development.
* Implemented **CI/CD** pipelines using **Azure DevOps,** automated the build, test, and deployed them to streamline development and enhance productivity in a healthcare project.
* Integrated **OAuth2** for healthcare application authentication and authorization, ensuring secure access to sensitive patient data and compliance with healthcare regulations such as **HIPAA.**
* Architected robust backend data storage and retrieval through integration of MongoDB with ASP.NET Core applications and Web Services.
* Utilized **Splunk** for proactive system monitoring, provided technical leadership and mentoring to enhance team capabilities, and efficiently managed project deliverables and issue resolution with **Jira** while ensuring meticulous version control and documentation with **GitLab** and **TFS**.
* Developed and utilized the extensive toolkits of **Visual Studio 2017** and **Visual Studio Code 2018** to facilitate effective development, debugging, and code analysis.
* Incorporated **GitHub Copilot** to assist with **code reviews**, generate optimized code, and ensure consistent adherence to coding standards across projects.
* Implemented and managed automated testing frameworks, using **XUnit** to ensure a robust, bug-free healthcare application, maintaining high standards of software quality and reliability. Fixed vulnerabilities in healthcare applications that were classified as **OWASP**, including SQL Injection, Cross-Site Scripting (**XSS**), and Broken Authentication.
* Using **Postman**, automated **API** testing was implemented for health-related services, guaranteeing dependable and consistent RESTful API performance in various contexts.

**Environment:** ASP.NET 4.5, MVC5, MVVM, WEB API, Visual Studio 2017, XML, XAML, JSON, IIS 7.5, HTML5, CSS3, Copilot, TypeScript, Angular 9, MS SQL Server, T-SQL, LINQ, XUnit, ADO.NET, Entity Framework, Kafka, RabbitMQ, Cassandra DB, Agile Methodology, TFS

**Client: State of Illinois, Chicago, IL Aug 2018 – July 2019**

**Sr Application Developer**

**Project Responsibilities:**

* Implemented **MVC** **architecture** and designed responsive and user-friendly UI with **MVC 4.0** Razor Views, **CSS**, **Angular 6**, and **Bootstrap**.
* Implemented client-side Interface using Angular 6 and **Node.js** to structure **JavaScript** code in an MVC.
* **VB.NET** was used to migrate outdated VB6 programs, updating the codebase and improving maintainability.
* Created typescript reusable components and services to consume RESTAPIs using **Angular 6.**
* Used **ASP.NETMVC 4.0** Page Controller pattern to add functionality to individual pages such that to accept input from the page request, invoke the requested actions on the mode.
* Created various **RESTful services** using **WEBAPI** to return serialized **JSON** data which are later consumed through Angular 6 services.
* Used **Entity Framework Core** First approach to create database and tables as objects along with **LINQ** to interact with database to perform **CRUD** operations.
* Created **SQL Server Reports** using **SSRS** and exported them to Excel format for managers and the QA team for easy validation and worked with different Control flow tasks in creating **SSIS packages**.
* Leveraged **WCF** mechanisms like seasoning, Instance Management, and Concurrency to make our services more robust and scalable.
* Utilized **Tableau** and **Azure Databricks** for advanced data analytics and machine learning, leveraging **Spark's** distributed computing capabilities.
* Integrated Microsoft Access with SSRS and Power BI for comprehensive reporting and data analysis, leveraging Access’s capabilities to query and transform data into insightful reports easily shared across platforms like SharePoint.
* Designed and developed **Stored Procedures, and functions** inside the packages for code reusing and database operation encapsulation on **Oracle 11g**
* **Splunk** was installed to enable more thorough log analysis, proactive problem detection, and quicker root cause investigation.
* Utilized the **TFS** source control software to keep track of new and past versions of code written in my application.
* Integrate Power Platform solutions with other **M365** **services** like **Planner**, **One Drive,** and **Outlook**.
* Implemented Unit Testing through **NUnit** and created tests for all functions used in the application.

**Environment**: Microsoft Visual Studio 2015, ASP.NET, C#, MVC 4.0, VB 6, SQL, PL/SQL, WCF RESTFUL Service, Web API, SOAP, Azure, Angular 6, Jasmine, LINQ, N-Unit, Agile and Scrum, HTML, CSS, ADO.NET Entity Framework 6.0, FileNet, Oracle11g, SQL Server 2014, Windows Server 2008, SSIS, SSRS, Crystal Reports, SVN, TFS.

**Client: Target, Minneapolis, MN Jan 2016 to June 2018**

**.NET Developer**

**Project Responsibilities:**

* Managed software development processes using **SDLC** and **Agile/Sprint** methodologies, ensuring transportation projects adhered to industry standards and were delivered on schedule and within budget.
* Developed complex **.NET applications using C#**, leveraging advanced programming features such as Delegates, Events, and Asynchronous Programming (Async/Await) to build scalable and responsive systems for transportation management.
* Led development efforts in the **.NET Framework**, crafting robust server-side logic and **MVC architectures** that effectively handled multiple user transactions and data processing in transportation operations.
* Handled data access and management using **ADO.NET**, expertly managing **SQL Connection**, **SQLCommand**, **SQL Data Reader**, **SQL Data Adapter,** and **SQL Parameter** to optimize database interactions and performance with **PostgreSQL**.
* Designed and implemented **RESTful APIs using JSON** and managed API traffic and security using **AWS API Gateway**. Ensured secure data exchange and integration with **JWT for authentication**.
* Developed complex **React applications** using modern JavaScript (ES6+), implementing advanced concepts like **Hooks**, **Context API**, and **React Suspense** to build scalable and responsive systems for transportation management.
* Integrated and managed message queues using **Amazon SQS (Simple Queue Service)**, facilitating reliable system integration and asynchronous data processing between different transportation application components.
* Developed serverless functions using **AWS Lambda**, and **EC2**, optimizing cloud resources and enabling auto-scaling capabilities for handling varying loads in transportation applications.
* Managed source code and version control with **Git** and **BitBucket**, overseeing team contributions to maintain a coherent and tractable development history in transportation projects.
* Configured and managed builds using **MS Build** and oversaw continuous deployment pipelines with **AWS CodePipeline** to ensure smooth and reliable delivery of updates in transportation systems.
* Administered and optimized web servers using **Nginx**, ensuring reliable performance and availability for React applications deployed within transportation projects.
* Monitored application health and performance using **AWS CloudWatch**, quickly identifying and addressing performance issues to ensure optimal service availability and user experience in transportation applications.
* Utilized **Behavior-Driven Development (BDD)** with Spec Flow Maintained comprehensive project documentation using AWS tools such as **AWS Code Commit** for source control and **AWS Code Star** for project management, providing detailed guidance and reference to project stakeholders and team members.
* Utilized **SVN** for version control, enabling efficient source code management, version tracking, and collaborative development across distributed teams.
* Implemented testing frameworks using **Moq** and **Jasmine** to ensure comprehensive coverage and maintain high-quality standards in both backend logic and frontend interfaces of transportation solutions.

**Environment:** Visual Studio 2012 C#, React, Bootstrap, ASP.NET 4.5, WCF, JavaScript, jQuery, MVC 4, HTML5, CSS3, Entity Framework, IIS 7.5, MVC4, AJAX, NUnit, SQL Server.

**Client: Value Labs, India Aug 2013 to Oct 2015**

**.NET Developer**

**Project Responsibilities:**

* Led the adherence to a robust Agile Software Development Life Cycle (**SDLC**), orchestrating retail projects from initiation through deployment with precision and adaptability, ensuring alignment with evolving requirements and market demands.
* Engineered sophisticated **C# web applications**, leveraging advanced object-oriented programming principles like Polymorphism and Encapsulation to fortify system modularity and security, while maximizing performance for retail operations.
* Spearheaded the evolution of applications within the **ASP.NET framework**, harnessing its extensive toolset to develop stable, scalable desktop and web solutions tailored to the demands of retail enterprises.
* Architected and deployed **SOAP APIs, using XML**, with **NGINX** configured for routing, load balancing, and acting as a reverse proxy, ensuring seamless data exchange and system resilience in retail systems.
* Directed the creation of dynamic, accessible web interfaces, employing a comprehensive stack including **Typescript**, **HTML**, **CSS,** and **Bootstrap**, guaranteeing optimal user experience across diverse devices and platforms for retail customers.
* Administered **MS SQL Server** databases, optimizing configurations for heightened performance and scalability, ensuring data integrity and reliability met stringent corporate standards in retail data management.
* Conducted thorough unit testing with **MS Test** to uphold code quality and user satisfaction, while managing source code repositories with **Subversion (SVN)** to foster effective collaboration and version control in retail software development.

**Environment:** C#.Net, VisualStudio.Net, ASP.Net, ServiceNow, TeamCity, SQL Server, MVC, HTML, CSS, JavaScript &