**Venkatesh Dorolla**

**Senior Full Stack .Net Developer**

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**PROFESSIONAL SUMMARY:**

* **Over 10 years of experience** in full-stack .NET development, delivering scalable, high-performance applications in various sectors including healthcare, finance, banking, insurance, airlines, and pharmaceuticals.
* Expertise in **.NET Core/.NET 6+**, **C#**, and **ASP.NET Core MVC**, building modern web applications, **RESTful services**, and APIs, alongside legacy **SOAP** and **WCF** services, ensuring seamless client-server communication and integration.
* **Front-end development proficiency** in modern frameworks such as **Angular, React, Vue.js**, and **Blazor**, creating interactive, responsive single-page applications (SPAs) using **JavaScript, TypeScript, HTML5, and CSS3**, with unit testing experience using **Karma** and **Jasmine**, and experience in **ASP.NET Web Forms** for server-side rendering.
* Skilled in **Entity Framework Core**, **ADO.NET**, **Dapper**, and **SQL Server**, providing efficient database interactions with hands-on experience in **T-SQL**, **PL/SQL**, and tools like **SSIS** and **SSRS** for data transformation, reporting, and analysis.
* Experienced in **cloud services** and DevOps with **Azure** and **AWS**, utilizing **Azure Functions**, **AWS Lambda**, and **Azure DevOps** for CI/CD, containerization using **Docker**, **Kubernetes**, and infrastructure management with **Terraform**.
* Expertise in **SignalR** for building real-time web applications such as chat systems and live notifications, ensuring seamless, low-latency communication.
* Extensive knowledge of **security protocols** like **OAuth2**, **SAML**, **JWT** for authentication and secure data transmission, and **ASP.NET Core Identity** for robust role-based access control and user management.
* Adept in **event-driven architectures** using **Kafka**, **RabbitMQ**, **Azure Event Hub**, along with **microservices** and **n-tier architecture**, to design scalable and loosely coupled systems.
* Proficient in **version control systems** like **Git**, **TFS**, and testing frameworks such as **xUnit**, **NUnit**, alongside tools like **Postman**, **Swagger**, for API testing, ensuring software quality and reliability.
* Strong experience in logging and monitoring tools such as **Log4Net**, **Serilog**, and **structured logging**, with expertise in implementing **design patterns** such as **Singleton**, **Factory**, and **Mediator Pattern**, and standards like **FHIR, HIPAA** for healthcare data exchange. Skilled in driving maintainable, testable, and modular code bases across diverse applications​.​

**TECHNICAL SKILLS:**

| **Frameworks & Libraries** | .NET Core (6.0, 5.0), .NET Framework (6.0, 5.0, 4.0), ASP.NET, ADO.NET, Entity Framework, WPF, WCF, LINQ, SignalR, ASP.NET MVC, ASP.NET Web API, NHibernate |
| --- | --- |
| **Programming Languages** | C#.NET (10.0, 4.0/3.5/3.0), VB.NET (10.0/9.0/8.0/6.0), C, C++, Java, Python, T-SQL, PL/SQL, TypeScript, JavaScript |
| **Front-end Technologies** | Angular 10+, React , Vue, TypeScript , HTML5, CSS3, JavaScript (ES6), Bootstrap , jQuery , AJAX, Razor Pages, Blazor |
| **Development Environments** | Microsoft Visual Studio (2015, 2017, 2019),Visual Studio Code, SQL Server Management Studio (SSMS) |
| **Database Systems** | SQL SERVER (Stored Procedure, Triggers, User Defined Functions, Views), MySQL, PostgreSQL, Oracle, Azure SQL Database, SQL Server Client Management Studio |
| **Cloud Platforms** | Azure, Azure App Services, Azure Functions, Azure AKS, Azure Service Bus, Azure SQL Database, Azure Storage**,** AWS |
| **Desktop Technologies** | WinForms, WPF |
| **Testing** | NUnit, xUnit.net, Karma, Jasmine, Jest, Mocha, Chai**,** Postman, SOAP UI, Swagger UI |
| **Version control tools:** | SVN, TFS, GitHub |
| **Tools** | SQL Server Reporting Services, SQL Server Integration Services, PostgreSQL, UML, MS Visio, SharePoint, Adobe Experience Manager. |
| **Web Servers** | Microsoft IIS, Azure |
| **Other Technologies:** | Jenkins, Docker, Kubernetes, Castle Windsor, Autofac, Unity |

**PROFESSIONAL EXPERIENCE:**

**Client: Express Scripts, St. Louis, MO**   **May 2023 to Present  
Role: Sr. Full Stack .NET Developer   
Roles & Responsibilities:**

* Building responsive, user-friendly interfaces using Angular 17, HTML5, CSS3, TypeScript, and JavaScript to create **single-page applications (SPAs)** that deliver seamless user experiences for healthcare professionals and patients in Pharmacy Benefit Management (PBM) systems while ensuring HIPAA compliance.
* Using **Blazor** and **Razor** for building interactive web UIs and server-side applications, while utilizing **jQuery**, **JSON**, and **AJAX** for dynamic web content and asynchronous data exchange
* Developing and maintaining **RESTful APIs** with **ASP.NET Core Web API**, **WCF**, **SOAP**, and **.NET 6**, ensuring secure, scalable, and efficient communication between healthcare systems, services, and external partners.
* Building and maintaining real-time communication features using **SignalR** and **Kafka**, enabling live updates, notifications, and real-time synchronization of patient data across healthcare systems.
* Implementing secure authentication and authorization using **OAuth2** and **JWT**, ensuring sensitive healthcare data protection in compliance with **HIPAA** and **FHIR** standards.
* Building and managing **Windows Services** for background processing of healthcare tasks, such as prescription processing and automated data synchronization, ensuring reliable system operations.
* Leveraging **OCR** (Optical Character Recognition) to automate document processing, improving accuracy and efficiency in handling patient records and healthcare forms.
* Managing databases with **SQL Server** using **Entity Framework**, **ADO.NET**, **Dapper**, and **LINQ** for seamless data access and manipulation in healthcare applications, while optimizing **stored procedures, triggers, DDL/DML, functions,** and **indexing** to enhance performance.
* Deploying and managing applications on **Azure** using **Azure App Services**, **Azure Functions**, and **Azure SQL Database**, creating scalable cloud-based healthcare solutions.
* Implementing **Azure DevOps CI/CD pipelines** to automate build, test, and deployment processes, using **YAML pipelines**, **Git**, and **Azure Repos** to ensure smooth and secure software releases.
* **Azure API Management**: Securing and monitoring healthcare APIs, ensuring proper handling of sensitive data and compliance with healthcare industry standards.
* Implementing **Docker** and **Kubernetes** for containerization and orchestration of applications, improving deployment, scalability, and management in cloud environments.
* Developing unit and integration tests using **Jasmine** and **Karma** for front-end reliability, and **xUnit** for robust testing of **.NET** applications, ensuring comprehensive coverage and performance for healthcare workflows.
* Integrating **SharePoint** for document management and **Confluence** for project collaboration, enhancing productivity and ensuring alignment with healthcare requirements.
* Structured logging and monitoring with **Serilog** and **Log4Net**, capturing system events and diagnosing issues to ensure stability and performance of healthcare applications.

**Environment:** Angular, HTML5, CSS3, TypeScript, JavaScript, Blazor, Razor, jQuery, JSON, AJAX, RESTful APIs, ASP.NET Core Web API, WCF, SOAP, .NET 6, SignalR, Kafka, OAuth2, JWT, Windows Services, OCR, SQL Server, Entity Framework, ADO.NET, Dapper, LINQ, Azure App Services, Azure Functions, Azure SQL Database, Azure DevOps, Docker, Kubernetes, Jasmine, Karma, xUnit, SharePoint, Confluence, Serilog, Log4Net

**Client: Delta Airlines, Atlanta, GA Oct 2021 to Apr 2023 Role: Sr. Full stack .NET Developer**

**Roles & Responsibilities:**

* Created dynamic and responsive **single-page applications (SPAs)** using Angular 15, JavaScript, and TypeScript, employing HTML5, CSS3, and SCSS/LESS for styling and layout. Integrated with Bootstrap and Tailwind CSS for responsive design and utilized Webpack and Vite for asset management and optimization.
* Integrated with **Bootstrap** and **Tailwind CSS** for responsive design and utilized **Webpack** and **Vite** for asset management and optimization.
* Employed **AJAX** and **JSON** for dynamic content updates and data exchange, and used **jQuery** for DOM manipulation.Worked with **XML**, **XHTML**, and **XSD** for data representation and schema validation.
* Designed and implemented robust backend solutions using **ASP.NET Core**, **.NET 6**, and **C#**, including **Web API** and **RESTful services**.
* Applied **gRPC** for high-performance inter-service communication and managed background tasks with **Hangfire** and **Quartz.NET**.
* Used **Entity Framework Core** and **Dapper** for efficient ORM interactions and optimized performance with **T-SQL** scripting.
* Implemented **stored procedures**, **triggers**, and **functions** to handle complex database operations and ensure data integrity. Written **DDL/DML** Scripts for database schema management and data manipulation. Employed **SQL Server**, **PostgreSQL** for relational database management.
* Designed and optimized databases with indexing strategies and advanced scripting for performance enhancement.
* Leveraged **Azure App Services**, **Azure Functions**, and **Azure SQL Database** for scalable cloud deployments and serverless computing.
* Integrated third-party systems through **RESTful APIs** and managed API lifecycle with **Azure API Management**.
* Developed and managed CI/CD pipelines using **Azure DevOps YAML pipelines**, **GitHub Actions**, and **Jenkins**, automating build, test, and deployment processes to ensure efficient and reliable software releases.
* Utilized **Docker** for containerization and **Kubernetes** for orchestration, enabling consistent deployment and scaling of applications across different environments and simplifying dependency management.
* Built real-time features using **SignalR** for live updates and notifications, and **Apache Kafka** for event streaming, ensuring timely and accurate communication between systems and users.
* Implemented secure authentication and authorization mechanisms with **OAuth2**, **JWT**, and **ASP.NET Core Identity**, protecting sensitive data and adhering to industry standards and compliance requirements.
* Conducted comprehensive testing using **xUnit** for unit tests, and **Cypress** for end-to-end testing. Employed **SonarQube** and **ReSharper** for code quality and static analysis.
* Managed asynchronous communication and event-driven architectures using **RabbitMQ**, **Kafka**, and **Azure Service Bus** to support scalable, decoupled application designs and workflows.
* Implemented structured logging with **Serilog** and **Log4Net**, and used monitoring tools like **ELK Stack** (Elasticsearch, Logstash, Kibana) and **Grafana** for performance tracking and issue diagnosis.
* Facilitated secure and efficient API access and documentation using **Azure API Management** and **Postman** for API testing, collaboration, and lifecycle management.
* Applied design patterns such as **Repository**, **Singleton**, **Factory**, and **Strategy** to promote maintainable and flexible code architecture, enhancing scalability and performance.
* Utilized **JIRA**, **Azure Boards**, **Confluence** and **SharePoint** for Agile project management, documentation, and team collaboration, ensuring effective communication and knowledge sharing.

**Environment:** Angular, JavaScript, TypeScript, HTML5, CSS3, SCSS/LESS, Bootstrap, Tailwind CSS, Webpack, Vite, AJAX, JSON, jQuery, XML, XHTML, XSD, ASP.NET Core, .NET 6, C#, Web API, RESTful services, gRPC, Quartz.NET, SQL Server, PostgreSQL, Entity Framework Core, T-SQL, Azure App Services, Azure Functions, Azure SQL Database, Docker, Kubernetes, SignalR, Apache Kafka, OAuth2, JWT, ASP.NET Core Identity, xUnit, Cypress, SonarQube, ReSharper, RabbitMQ, Azure Service Bus, Serilog, Log4Net, ELK Stack, Grafana, Azure API Management, Swagger, JIRA, Azure Boards, Confluence, SharePoint.

**Client: Cincinnati Financial, Fairfield, OH Apr 2019 to Sep 2021 Role: .NET Application Developer**

**Roles & Responsibilities:**

* Developed responsive user interfaces in **Angular 7** for dynamic **financial dashboards** and reporting tools, enabling real-time visibility into client portfolios, risk assessments, and **insurance claim** statuses. Leveraged **NgRx** for state management to handle complex data flows and optimize user interactions.
* Integrated **SignalR** and **WebSockets** to enable real-time notifications for insurance claims, providing immediate updates to adjusters and customers, reducing resolution times and improving customer satisfaction.
* Built backend services using **C#** and **.NET Core 2.2** to handle the calculation of insurance premiums based on multiple variables such as risk factors, policyholder data, and historical trends, ensuring accurate premium pricing and policy management.
* Created secure **ASP.NET Core Web APIs** to manage policyholder data, enabling users to view and update their insurance policies, track claims, and access statements securely. Implemented **Azure Key Vault** for secure management of customer credentials, encryption keys, and application secrets.
* Utilized **Azure SQL Database** and **Entity Framework Core 2.0** to build data models that supported complex financial operations, including claims risk analysis, underwriting insights, and historical data retrieval for auditing purposes. Optimized queries to ensure high-speed access to large datasets.
* **Designed and optimized SQL queries, stored procedures, and functions to support backend operations** for insurance claims, policy management, and financial reporting. Ensured efficient data retrieval, accurate claim processing, and seamless integration with underwriting and billing systems.
* Integrated **Azure Blob Storage** for efficient handling of large volumes of policy documents, claim forms, and customer records, ensuring secure, compliant storage and retrieval of sensitive data.
* Applied **Azure API Management** policies, including rate limiting and encryption, to ensure that financial transaction APIs met compliance standards, secured sensitive insurance data, and reduced the risk of fraudulent activities.
* Configured **Azure DevOps CI/CD pipelines** for continuous deployment of insurance claim and policy management systems. Integrated unit tests with **NUnit** to ensure accurate calculations for financial transactions such as claim payouts, premium adjustments, and refunds.
* Led initiatives to migrate legacy insurance data to modern platforms using **Azure Data Lake**, facilitating seamless integration with new systems, reducing downtime, and improving data accuracy for underwriting and claims operations.
* Deployed containerized microservices using **Docker** and **Kubernetes** for scalable policy management and claims handling services, ensuring high availability and load balancing during peak claim periods (e.g., disaster scenarios).
* Collaborated with business analysts to understand **financial regulations** and **insurance requirements**, translating complex financial processes into scalable technical solutions while ensuring compliance with industry standards and minimizing financial risks.

**Environment:** C#, .NET Core, ASP.NET MVC, ASP.NET Core Web API, Angular 7, RxJS, SignalR, Bootstrap, Material Design, Entity Framework Core, SQL Server, Azure SQL Database, Azure App Services, Azure DevOps, Azure Blob Storage, Azure Key Vault, Docker, Kubernetes, Azure API Management, Visual Studio, NUnit, Moq, LINQ, RESTful APIs, Razor Views, AJAX, RxJS, NgRx, WCAG compliance, and CI/CD pipelines.

**Client: Expedia,** **Seattle, WA Jan 2017 to Mar 2019**

**Role: .Net Developer**

**Roles & Responsibilities:**

* Developed dynamic user interfaces for the "TravelSmart" booking platform using **React**, integrating **React Router** for seamless navigation and **Redux** for state management.
* Leveraged modern **JavaScript (ES6+)** features including arrow functions, async/await, and destructuring to enhance code efficiency and readability.
* Crafted responsive and visually appealing layouts using **HTML5** and **CSS3**, ensuring a seamless user experience across various devices.
* **Optimized React application performance** through advanced techniques and efficient resource management on AWS, handling high transaction volumes effectively.
* Conductedunit testing of React components and JavaScript code using **Jest** and **Enzyme**, ensuring code reliability and quality.
* Enhanced code quality with **TypeScript**, applying static type checking to improve maintainability and reduce errors.
* Developed backend services using **Node.js** and **Express.js**, creating RESTful APIs and integrating them with frontend components for a cohesive application experience.
* Managed relational database services using **Amazon RDS** for SQL databases, ensuring data integrity and efficient query handling.
* Applied **Amazon DynamoDB** for handling **NoSQL data**, enabling fast and flexible data retrieval for diverse application needs.
* Built and consumed **RESTful APIs** for seamless integration with backend systems, enhancing the functionality and data exchange capabilities of the application.
* Developed serverless **microservices** using **AWS Lambda**, enhancing scalability and reducing operational overhead.
* Designed and managed **APIs** with **Amazon API Gateway**, facilitating robust integration between frontend and backend services.
* **I**mplemented scalable server solutions on **Amazon EC2**, optimizing application performance and managing virtual servers for high transaction volumes.
* Utilized **Amazon S3** for efficient object storage of media files and application assets, ensuring reliable and scalable content management.
* Optimized content delivery and performance with **AWS CloudFront**, improving load times and user experience.
* Monitored and analyzed application performance using **Amazon CloudWatch**, identifying and addressing performance bottlenecks.
* Utilized **Webpack** and **Babel** for efficient module bundling and code transpilation, ensuring compatibility and optimized performance.
* Integrated continuous **integration** and **deployment** practices using **Jenkins** and **AWS CodePipeline**, streamlining the development workflow.
* Implemented security measures including data encryption and secure authentication, safeguarding both frontend and backend applications.

**Environment:** React, JavaScript (ES6+), HTML5, CSS3, Node.js, Express.js, TypeScript, AWS (EC2, S3, RDS, DynamoDB, Lambda, API Gateway, CloudFront, CloudWatch), TFS, Webpack, Babel, Jest, Enzyme, Jenkins, AWS CodePipeline.

**Client: Juspay Technologies, Bangalore, India Nov 2013 to Sep 2016**

**Role: Software Developer**

**Roles & Responsibilities:**

* Developed **secure payment gateway systems** using **VB.NET**, ensuring high-speed, reliable transaction processing across diverse platforms for **e-commerce, banking,** and other **financial** applications.
* Implemented core **backend functionality** and business logic in **VB.NET**, enabling scalable and robust payment processing solutions to handle high transaction volumes while minimizing downtime and ensuring accuracy.
* Created dynamic user interfaces using **ASP.NET, HTML,** and **CSS** to streamline payment workflows, improving the overall user experience for online transactions.
* Enhanced client-side interactions with **JavaScript** and **jQuery**, making the payment process more user-friendly and reducing abandonment rates by providing instant feedback and validation.
* Designed and optimized **SQL Server databases** to ensure secure storage and fast retrieval of sensitive transaction data, supporting real-time payment processing and reporting.
* Integrated multiple **third-party payment gateways and APIs**, enabling seamless cross-platform payment transactions while maintaining high levels of security and performance.
* Applied strict security protocols, including **SSL/TLS encryption**, to safeguard payment data, ensuring compliance with industry standards like **PCI DSS** and preventing fraud and data breaches.
* Developed and consumed **SOAP** and **REST** web services for real-time communication between the payment gateway and external systems, ensuring fast and reliable transaction processing.
* Utilized **XML** and **JSON** for data exchange, improving the efficiency of communication between payment systems and external services like fraud detection and billing systems.
* Implemented **object-oriented programming (OOP) principles** to ensure that the payment gateway was scalable, maintainable, and capable of handling new payment methods and platforms as they emerged.

**Environment:** VB.NET, NHibernate, ASP.NET Web API, ASP.NET security frameworks, Microsoft IIS, Microsoft Visual Studio 2015, Azure cloud services, xUnit.net, Castle Windsor, AJAX, jQuery, Version Control Systems within Visual Studio, Oracle, Microsoft IIS tools.

**Education:**

* Bachelor of Technology (B.Tech) in Computer science from Osmania University, Hyderabad, Telangana, India. - 2013