**Vamshi S**

**Senior .NET Developer**

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**Professional Summary**

* **Over 10 years** of IT experience in all phases of the product development life cycle that includes Analysis, Design, Development, Integration and Deployment.
* Expertise in programming with **C#, ASP. NET, ASP. NET MVC, ASP. NET CORE, SQL - Server, Oracle, Visual Studio, Ajax, LINQ**, **CSS**, and **IIS**.
* Experience in developing N-tier web applications using **Visual Studio 2010/2012/2013/2015/2017/2019, C#, ASP.Net 3.0/3.5/4.0/4.5/5.0, ADO. Net, WCF, WPF, Web API, XML, SOAP, VB.net, SOA Web Services (WSDL), Web Forms, Microsoft .NET Frameworks**.
* Expertise in **Active Directory** setup and troubleshooting for any deleted objects and **AD** **recycle** **Bin**.
* **Planning, creating, and managing** **AD** group policy Templates and Policies Administration, Operating System Security Patches Upgrade Procedure for secure computing and network environment.
* Experience in developing web-based applications using **ASP.NET, MVC**, **JavaScript**, and **jQuery**, **AngularJS**, **HTML** and **CSS**.
* Developed and implemented automated test scripts using industry-standard **QA automation tools**, such as **Selenium** and **Appium**, to enhance the efficiency of software testing processes.
* Experience in Database testing, functional testing, Regression Testing, and system testing.
* Expert in developing **Single Page Application (SPA)** with **Angular 9**, **Angular CLI**, **TypeScript**, and skilful in Angular features such as **Material Design**, **Components**, and **Services**.
* Extensive knowledge of **Object-oriented programming (OOP)** features such as encapsulation, abstraction, inheritance, polymorphism, and implementation of Object-Oriented concepts.
* Experience in Microsoft Azure **IaaS, PaaS** and **SaaS** Architecture, Strategy and Planning. Working knowledge of visual studio with **Azure**.
* Collaborated with cross-functional teams to define and enforce coding standards, ensuring consistency and maintainability across the **microservices** **ecosystem**.
* Experience in front - end technologies such as **Angular 7 & 9**, **NGRX Platform (Store, effects, router-store Devtools**).
* Conducted in-depth **GIS** **data** **analysis**, leveraging spatial analytics tools to derive meaningful insights and support decision-making processes.
* Designed and developed Automation Test Framework using **Selenium web driver.**
* Experience in Multithreading in **WPF** for performance optimization while accessing data from remote data storage including EDI/XML mapping to business object processes.
* Worked on client **WPF** application using **C#,** **XAML**, **MVVM**, Unity Container, Custom controls, and behaviours.
* Strong abilities in **XML, XSLT, IIS 10.0, WSDL, UDDI, CLR, XML Web service, Security** in **ASP.Net.**
* Experience in using Language-Integrated Query (**LINQ**) query and retrieve data from different data sources (**LINQ to Objects, LINQ to XML, and LINQ to SQL).**
* Experience in using various version controlling tools like **VSTS (Azure DevOps)**, Subversion, and Team Foundation Server.
* Implement an automated build process in **VSTS** using Jenkins to create a full **CI/CD pipeline**.
* Experience in using **SSIS** to validate, Extract, Transform and load data to **Database SQL** Server and Scheduled Jobs for executing the **SSIS Packages.**
* Responsible for **Servers Health Check and Performance** Monitoring for all the Window servers.
* Strong experience in data site retrieval and manipulation using **ADO.NET** data objects such as **Dataset, Data Reader, Data list, Data Adaptor.**
* Proficient with container systems like **Docker** and container orchestration like **EC2 Container Service**, **Kubernetes**, worked with **Terraform.**
* Managed **Docker orchestration and Docker containerization** using **Kubernetes.**
* Experience in Custom, Tabular, Matrix and distributed reports in multiple formats using **Crystal Reports, MS SQL Server Reporting Services and SQL Server Services (SSIS, SSRS).**
* Familiar with JavaScript libraries like **Bootstrap** templates and **Angular.js framework**.
* Utilized tools like **kubectl** **and Azure CL**I for troubleshooting and debugging **Azure Kubernetes** deployments.
* Experience with **Entity** **Framework** approaches such as code-first and database-first.
* Experience in creating Server objects like **Tables, Stored Procedures, Views, Indexes, Triggers, Cursors, user defined data types and functions.**
* Excellent experience in dealing with **Delegates, Assemblies, User Controls and Custom Controls**.
* Experience in Software Configuration Management (Daily Build, Release and Testing methodology) using tools like **Team Foundation Server (TFS), Microsoft Visual Source Safe (VSS).**
* Experience in developing and monitoring **SSIS** Packages, SSAS**, SSRS.** Experience in generating reports using **SQL Server Reporting Services and Crystal Reports.**
* Experience in working with Windows Communication Foundation (**WCF**), Windows Presentation Foundation (**WPF**) and Windows Workflow Foundation (**WWF**).
* To achieve Continuous Delivery goal on high scalable environment, used **Docker** coupled with load-balancing tool **Nginx.**
* Virtualized the servers using **Docker** for the test environments and dev-environments needs, also configuration automation using **Docker** containers.
* Experience in creating **T-SQL stored procedures**, **functions**, **tables**, **views** and **SQL joins** and other statements for various applications, maintained referential integrity, and implemented business logic.
* Possesses strong problem Analytical skills with ability to follow Project standards and procedures as per client specifications. Worked as an individual and in a team environment.

**Technical Skills:**

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| --- | --- |
| **Microsoft Technologies** | .NET Framework 3.0/3.5/4.0/4.5, ASP.NET, ADO.NET, ASP.NET CORE, WEB API, LINQ |
| **Programming Languages** | C, C++, C#.net, Knowledge in Python, COBOL, JCL, CICS, TSO.tel, Razor, Kafka |
| **Web Scripting Languages** | JavaScript, TypeScript, JSON, jQuery, CSS, HTML, DHTML |
| **Web Technologies** | ASP.NET CORE, HTML5, CSS3, Java Script, JQUERY, Angular 9, XML, JSON, XAML, XSL, XSLT, Kendo UI, Azure, Knockout JS, Angular JS, Marionette.js**,** Require JS,Ajax, Web API, Boot Strap. |
| **Database Technologies** | SQL Server (Stored Procedure, Triggers, User Defined Functions, Views), MS Access, T-SQL, PL/SQL, ODBC, MySQL,SQL Server client management studio, MongoDB, Oracle 10g/9i/8i. |
| **XML Technologies** | XML, XHTML, DHTML, SOAP, WSDL, Web Services |
| **Operating Systems** | Windows 2007, Windows 10 and Windows server 2012/ 2016/2019 |
| **Software/Tools** | Jenkins, Docker, Kubernetes |
| **Modelling Tools** | UML, Rational Rose, Design Patterns, MVC |
| **Cloud** | Azure. AWS |
| **Application Servers** | IIS |
| **Testing Tools** | MS-Test, xUnit, Mocking, Visual Studio Unit Test, Karma. |
| **Version Control Tools** | Visual Source Safe (VSS), Team Foundation Server (TFS), VSTS, GIT |
| **Tools** | SQL Server Reporting Services, Redis, Cozyroc, PostgreSQL, OData, RDF Crystal Reports (2010/9/8.5/8), SQL Server Integration Services, UML, MS Visio, Sharepoint, Visual SourceSafe, SubVersion, Team Foundation Server, Delphi, Xpediter, Adobe Experience Manager. |

**Professional Experience:**

**Client: T- Rowe price, Baltimore MD**  **July 2021 – Till Date**

**Role: Lead .Net Developer**

**Responsibilities:**

* Creating **Web API** in **Dotnet Core 3.1**
* Creating **Angular** and **MVC** application from scratch to design the UI components and services to have http communication.
* Setup **Continuous Integration builds and Continuous Deployment pipelines** in **Azure** **Devops** and Team
* Created Business Logic Layer & Data Access Layers to implement the **MVC** **architecture**.
* Used **Jenkins pipelines** to drive all **microservices** builds out to the **Docker registry** and then deployed to **Kubernetes**, Created **Pods** and managed using **Kubernetes.**
* Implemented **containerization** using **Docker** for **microservices**, streamlining deployment processes**,** and ensuring consistent performance across various environments.
* Implemented **CI/CD pipelines** using **Azure DevOps** for efficient deployment and continuous integration with **Azure Kubernetes service**.
* Integrated **GIS** **functionalities** into existing .NET applications, enhancing their spatial analysis capabilities.
* Implemented geospatial algorithms and data processing techniques to optimize **GIS** **performance**.
* Designed and implemented scalable and resilient **.NET applications** on **Azure Kubernetes Service (AKS)** to meet high availability requirements.
* Performed **Back-End Testing** for data validation using **SQL Queries.**
* Used Microsoft Team Foundation Server (**TFS**) for all the source code maintenance among the whole team members.
* Implemented **JWT Token** Authentication in **WEB API** application.
* Involved in **maintaining, debugging, and resolving** the issues in the application.
* project planning until production and maintenance using agile methodology.
* Implemented **Multi- Threading and Thread Pool concepts**.
* Developed reusable **components** and **services** using **TypeScript** to perform **CRUD** operations based on **Angular 9** structure and concept of **dependency injection**.
* Created Test Cases in **Angular** application using Karma.
* Developed unit test cases and performing Unit and Integration testing of the application using **Xunit** Framework and Maintaining 75% Code Coverage.
* Used **GitLab** for all the source code maintenance among the whole team members.
* Using **JIRA** tool for defect management.

**Environment:** *ASP.NET 4.8, C#, MVC 5.2, Visual Studio 2022, Typescript, HTML5, CSS3, Bootstrap, XAML, XSLT, SOAP, N-unit, Jenkins, Azure, Team Foundation Server, Jira, Agile, Windows.*

**Client: Citizen Bank - Johnston, RI Jul 2019 – June 2021**

**Role: .Net Full Stack Developer**

**Responsibilities:**

* Used **Azure DevOps** tool for management.
* Involved in creating both **Restful API** using both **Asp**.**Net Web Api** and **NodeJS** and used **Postman, PowerShell scripts and Windows Virtual Desktop ARM Client** to test **Web** **API** endpoints.
* Created the web application in **.NET framework**, .**NET core** and implement logic using **C#** and **OOPS** concepts.
* Perform **Peer’s Code** Review to avoid any code quality issues.
* Update **Azure Pipeline’s Yaml files**.
* Developed and maintained **RESTful** **APIs** within the **microservices** ecosystem, facilitating seamless communication and data exchange between different services.
* Integrated **continuous integration and continuous deployment (CI/CD) pipelines** to automate the build, test, and deployment processes for **microservices**, reducing time-to-market.
* Implemented advanced networking configurations, such as **virtual networks** and service endpoints, for secure communication within **Azure Kubernetes clusters**.
* Monitor the test logs in Microsoft Dogfood and **Jarvis** portals.
* Implemented Geographical Information System (**GIS**) integration within .**NET applications**, enhancing spatial data processing and visualization capabilities.
* Utilized **ArcGIS** and other **GIS** **tools** to create custom mapping solutions for project requirements.
* **NGRX store** was used to store results after angular injector observables retrieved the data from backend.
* Developed **Mean Stack** from scratch including **Mongo DB** server setup and **Express JS** server development.
* Involved in Test Design, Development, and Implementation of test procedures in **Selenium** **Performed** unit testing and integrated testing for fixing the bugs, writing test cases, test plans and generating test scripts.
* Developed stored procedures, functions, and triggers using **SQL** and **T-SQL** in **MS SQL Server** for fetching the data and binding and used **LINQ** to **SQL** to query the database.
* Used **Entity Framework** to create Models and used tools to explore **REST API**. Used **NuGet** package manager to pack and use the updates versions of browser control.
* Involves **Unit Testing**, **Integration Testing** and **Regression Testing** in a regular basis to improve the performance of the application.
* Implemented and maintained data storage solutions, such as **SQLite databases**, to ensure efficient data handling within **Android applications**.
* Used **Agile methods** and frameworks/tools like spring and **NHibernate.**
* Used **NHibernate** to provide communication between data access layer and backend database.
* Implements software Configuration Management, setting up company version policies utilizing **TFS**.

**Environment**: *C#, .NET Core 3.1, JavaScript, Jarvis, Azure Dogfood Portal, N-unit, NGRX.*

**Client: US Foods, Rosemont, IL Oct 2017 – Jun 2019**

**Role: Senior .Net Developer**

* **Role:** Developed **Mean Stack** from scratch including **Mongo DB** server setup and **Express JS** server development.
* Involved in Test Design, Development, and Implementation of test procedures in **Selenium** Performed unit testing and integrated testing for fixing the bugs, writing test cases, test plans and generating test scripts.
* Developed stored procedures, functions, and triggers using **SQL** and **T-SQL** in **MS SQL Server** for fetching the data and binding and used **LINQ** to **SQL** to query the database.

**Responsibilities:**

* Creation of database objects like tables, views, synonyms, materialized views, stored procedures, packages using **Oracle** tools like **PL/SQL developer**.
* Built complex queries using **SQL** and wrote stored procedures using **PL/SQL**.
* Performed **SQL and PL/SQL tuning** and application tuning using various tools like tkprof, autotrace and **dbms\_SQLtune.**
* Effectively involved in various stages of development of the project starting from the project planning until production and maintenance using **Agile methodology.**
* Orchestrated **microservices** using **container** **orchestration** tools such as **Kubernetes**, ensuring efficient resource utilization and scalability of the application.
* Led a team of developers in the seamless migration of a monolithic application to a **microservices**-based architecture, resulting in improved maintainability and agility.
* Designed and implemented the web application using **Angular 7, HTML5, CSS, and Bootstrap on the front end, Restful API using both Asp.Net Web API, MVC 5.2** and **Node.JS.**
* Developed the application using **Visual Studio Code, Visual Studio, .Net Framework 4.8**, deployed onto **Microsoft Azure.**
* Implemented and optimized geospatial web services, utilizing technologies such as **RESTful** **APIs** and **WMS**/**WFS** standards to facilitate seamless communication between **GIS** **systems** and other applications.
* Implemented version control mechanisms for **GIS** **data**, allowing for tracking changes over time and maintaining data integrity in collaborative environments.
* Diverse experience utilizing tools in **N-tier** and micro services architecture application using spring boot, **Rabbit MQ, Kafka,** **Zookeeper**, **Cassandra**, **MySQL**, **Restful** **Web** **Services**.
* Solid experience with **data driven framework** implementation.
* Performed Back-End Testing for data validation using **SQL Queries**.
* Designed and implemented **RESTful APIs** using **AWS Lambda** functions, ensuring secure and reliable communication between services.
* Developed **QA** **automation** test framework to ensure the code reusability and code.
* Develop web service test with **SOAP UI** to test **SOA platform**.
* Building/Maintaining **Docker container** clusters managed by **Kubernetes Linux, Bash, GIT**, **Docker, on GCP.**
* Changing the **AWS infrastructure Elastic** **Beanstalk** to Docker with **Kubernetes.**
* Set up and configured monitoring tools (e.g., **Azure Monitor)** to track the health and performance of **Azure Kubernetes clusters.**
* Implemented **TypeScript** best practices, including static typing, interfaces, and decorators, to enhance code quality and developer productivity.
* Used addEventListener for the faster rendering of Application using **Angular 7.**
* Developed **Mean Stack** from scratch including **Mongo DB** server setup and **Express JS** server development.
* Implemented **XML** Web Services in **C#** based on **SOAP** protocols using **XML** and **XSLT** extensively for data transfers.
* Experience Configuring and managing **Azure AD Connect**, **Azure AD Connect** **health**, **Microsoft Azure Active Directory.**
* Developed **WPF** based **UI** using **Silverlight**.
* Updating **kernel** & **security** patches in **Amazon linux** environment, handling out of memory issues in Linux kernels during rebalance in **Kafka** cluster.
* Actively participated in the pair **programming model**.
* Involved in creating Restful **API** using both **Asp. Net Web Api** and **Node, ExpressJS** and used **Postman** to test Web API endpoints.
* Creation and Maintenance of **MS Azure-cloud Infrastructure** and **Virtual Network** between **MS Azure Cloud** and On-premises network for backend communication.
* Used **Microsoft Azure** to deploy the applications and maintain the database in cloud.
* Applied **Router Module** and navigate different URL addresses using **Angular Router Link**.
* Implemented **Schematics** and Client-Side **State Management** using **NGRX**, **Angular 7**, .**NET code.**
* Developing Web Services, **XML**, validating request and response **XML, SOAP,** and **RESTFUL Web Service calls**.
* Experience in managing **Mongo DB**environment from availability, performance, and scalability perspectives.

**Environment:** *ASP.NET 4.8, C#, MVC 5.2, Visual Studio, Angular 7, Typescript, HTML5, CSS3, Bootstrap, XML, XSLT, SOAP, N-unit, Azure, Team Foundation Server, Jira, Agile, Windows.*

**Client: UHG - Drive Eden Prairie, MN Apr 2015 – Sep 2017**

**Role: .Net Developer**

**Responsibilities:**

* Developing the project using agile methodology with daily (**SCRUM**) paired programming using **TDD (test driven development)** and **continuous integration/ deployment (CI/CD)** using SDLC process.
* Created complex Web forms, win forms, presentation layer and various server controls using **WCF, ASP.NET MVC5** and **C#**.
* Experience with **JavaScript** frameworks such as **AngularJS** and **Knockout** **JS**, **React JS**.
* Developed the application using **ASP.NET, C#.NET, AJAX, jQuery, JSON, HTML5, JavaScript, Typescript, Angular 2, CSS3, RESTfu**l.
* Developed **ASP.NET** Web customs controls, user controls, Data controls like Data Grid, Rich UI with extensive use of **C#**, **ASP.NET AJAX, Node JS, Angular 2, Bootstrap**.
* Used **Jenkins pipelines** to drive all **microservices** builds out to the **Docker registry** and then deployed to **Kubernetes**, Created **Pods** and managed using **Kubernetes.**
* Implemented monitoring and logging solutions for **microservices**, enabling proactive issue detection and resolution, and ensuring high availability of services.
* Utilized **Kubernetes** for the runtime environment of the **CI/CD** system to build, test deploy.
* Implemented **C# .NET, MVC** and **Object-Oriented Programming concepts** and created **general Class library, Partial Class, Generics** Using **C# .NET.**
* Implemented client and server-side validations using **ASP.NET** validations controls and **JavaScript**.
* Used **RESTful** in the **Angular 2** page with **Web** **API** and implemented **Angular 2** Controllers to maintain each view data and Used **Restful** services using **Web API** to get data from server asynchronously.
* Worked on developing a different module with **Angular 2** which will be run on Node JS server.
* Design and developed website (**GUI**) Screens using **ASP.NET MVC5, C#.NET, User controls, JavaScript,** and **Data Controls.**
* Validated the **Kill Switches** in the **Database** using the **SQL Management Studio 2008 R2**, which are used in the Mobile application.
* Involving in the full development cycle of Planning, analysis, design, development, testing, and implementation.
* Created and modified **SQL Plus, PL/SQL and SQL Loader scripts** for data conversions.
* Implemented indexing and query optimization strategies to enhance the performance of **NoSQL** databases.
* Developed and modified triggers, packages, functions and stored procedures for data conversions and **PL/SQL** procedures to create database objects dynamically based on user inputs.
* Wrote **SQL, PL/SQL, SQL plus** programs required to retrieve data using cursors and exception handling.
* Created and modified several **Unix shell scripts** according to the changing needs of the project and client requirements.
* Created user facing **UI using Typescript and AngularJS**.
* Extensive development using **ASP.NET Web Forms using AJAX, Master Pages, Web Parts, Provider Model, JavaScript.**
* Used **Angular JS** framework for building **Web - apps** and is highly efficient with **PHP framework.**

**Environment:** *C#.NET, ASP.NET, ASP.NET MVC, Continuous integration/ deployment, AJAX, jQuery, JSON, HTML5, CSS3, RESTful, WEB API, Node JS, Angular 2.0, Bootstrap, JavaScript, MVC5, WCF, SQL Server 2014, LINQ, T-SQL, TFS, SSIS, SSRS, Windows.*

**Client: Birla Sun Life Insurance - Hyderabad, India Feb 2013 – Aug 2014**

**Role: .Net Developer**

**Responsibilities:**

* Involved in maintenance and ongoing enhancements to application developed in **ASP.NET, C#, MVC, Web Services and T-SQL.**
* Used **C#** advanced concepts like Automatic properties, Anonymous types, Lambda Expressions, Extension Methods.
* Developed the web application based on .**NET** and web technologies like **ASP.NET, HTML, CSS, AJAX, JavaScript, jQuery, Multithreading, Entity Framework, LINQ, and so on.**
* Developed code for importing excel data to **SQL Server database** with **SSIS** and **SSAS.**
* Implemented **WCF Service** Methods to access data from the database to bind it inside a Silverlight application.
* Used **jQuery** for Client-Side Validations and **AJAX calls** to communicate with Controller Actions and **Web API** Services with **JSON Data**.
* Developed **.Net core** functionality with the **ASP.NET MVC Framework**.
* Extensive use of **Web Services, SOAP, XML, XSL**to expose the reports to facilitate information sharing.
* Used **JSON** to transmit data between Server and Web Application, an alternative to XML Serialization.
* Worked on **ADO.Net** components **SQL** Connection Object, **SQL** Command Object, Data Reader, Data Adapter, Data Set and Dataview to provide communication to the database.
* Implemented robust security measures for **NoSQL** **databases**, including authentication and authorization mechanisms.
* Tested the application; prepared testing report and bugs report for superiors.
* Used **LINQ**to build set of operations, parameters, and expressions (Binary, Unary, Lambda) during execution (aimed at "Querying") a set of data from **SQL Server**.
* **jQuery** plugins for **Drag** and **Drop**, **widgets, menus** and **User interface** for Forms were used.
* Manage all **CM tools (SVN, Jenkins, Git, GitHub, Visual Studio)** and their usage / process ensuring traceability, repeatability, quality, and support.
* Write and tests **Web Services** calls manually and through **automation.**
* Worked on Stored Procedures, Temp tables, Table variables, Functions, and joins**.**

**Environment*:*** *Visual Studio, C#, SOAP, ASP.NET, Web Services, ADO.NET, JavaScript, jQuery, HTML5, CSS3, LINQ to SQL, IIS, AJAX, XML, SQL Server, Team Foundation Server, Windows.*