Karan Raj

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**Professional Summary:**

* **Proficient 8+ years** of experience in complete life cycle of Software Development that includes **requirements gathering, analysis, design, development, testing and deployment** using Visual Studio.
* Extensive experience in **.NET** applications based on Object Oriented Programming (**OOPS**), Internet Technologies, Web based, Client/Server, N-tier and Service Oriented Architecture (**SOA**).
* Experience in Developing User Interface (**UI**) Rich Web Applications, and **Web Service** Applications using Front End/User Interface (UI) Technologies like Object Oriented **JavaScript, Type Script, Angular 2.0, Angular 4, Angular JS, CSS3, SSIS, SSRS, HTML 5, Node JS, MVC, WPF, WCF, React JS, Bootstrap Framework, Media** **Queries, CSS Frameworks, AJAX, VB.Net, Java.**
* Developed the web application using C#, ASP.Net Web API 2, SQL Server, **Angular** **2**, AJAX, and Entity Framework 6.
* Creative experience in developing business solutions by utilizing Microsoft Technologies like Microsoft Dynamics CRM, ASP.NET and SQL Server, XML, HTML5 and JavaScript.
* Created **Angular** component, which makes AJAX call RESTful API's.
* Experience in **Agile** software development methodology and Test-driven development (TDD) including **SCRUM** Framework.
* Hands on experience with **SQL** Server Reporting Services (**SSRS**), SQL Server Integrating System (**SSIS**) using SQL.
* Created Typescript reusable components and services to consume REST API's using Component based architecture provided by **Angular 2**
* Experience in developing User Interface using **Web Forms, Win Forms, Rest Full Web Services, AJAX Toolkit**, **CSS,** **HTML** and **jQuery, Angular JS**.
* Experience with **Client-Side** Frameworks **jQuery /Angular JS** and used **AJAX** for the Asynchronous data transfer between the client and the server for creative and interactive web applications, mainly focused on performance improvement.
* Implemented **Angular 2** Routing, Navigation, Components and Services.
* Expertise in customizing the entities, forms, fields etc. with **Dynamic CRM** SDK.
* Created Typescript reusable components and services to consume **REST API's** using component-based architecture provided by **Angular 2/4.**
* Worked with **MVVM** pattern and developed view-models using **Angular** **JS 2/4**.
* Experienced in database design, development and administration, **ER-Win**, creating SQL Stored Procedures, **ETL** packages development in **SSIS**, reports in **SSRS** / Report Builder and Kingsway soft **SSIS CRM** data integration.
* Developed **ASP.NET** MVC 5.0/4.0 applications using Code First Approach in Entity Framework 6.0 and UI in Razor View Engine and have experience with the MVC Architecture.
* Built a service-based application with RESTful ASP.NET WEB API 2.
* Knowledge in configuring several security policies on various entities in the system to manage and implement appropriate access controls in **MS Dynamics CRM 2015** using XRM Toolbox.
* Expertise in design and development of web applications using **JSP, JavaScript, Typescript JS, HTML5, CSS3, JQUERY, AJAX, JSON, Adobe CQ5, Flash, XSL, XSLT, Backbone JS, Bootstrap.**
* Work experience on Windows Azure, Azure Active Directory, **and SQL** Azure, creating resource groups, subscriptions, build definitions and release definitions.
* Expertise in creating Views, Partial Views, Strongly Typed Views, Sections, and Areas etc. In ASP.NET **MVC**, and Created the Controllers and Controller Actions, Filters, Routing using **ASP.NET** MVC.
* Experience in development and implementation of Windows Communication Foundation (**WCF**), and responsible for **developing WCF based Service, Data, Fault and Message Contracts and services.**
* Experience of integrating **Dynamics CRM** with other applications using Real-time as well as batch approaches.
* Expertise in developing applications using .**NET** application building blocks (**Site Map, Data access, Exception Handling, State management**).
* Experience in using **Web API** (Restful services) and N-Hibernation to fetch data and bind it to UI using **AngularJS** as a View Model.
* Worked extensively with different **ADO.NET** objects to interact with database and pleasant experience in using **ADO.Net** objects such as SQL Connection Object, SQL Command Object, Data Reader, Dataset and Data Adapter.
* Extensive Experience with ORM technologies like Entity Framework. Database First, Code First and performance tuning in Entity Framework.
* Worked on reading and generating **XML** files and related technologies like **XSL**, **XSLT**, **XAML** and **X-Path**.
* Working experience in data modeling and implementing tables, views, stored procedures, functions, and Triggers using **T-SQL** and **PL/SQL**. Extensive knowledge of writing complex queries using **SQL**.
* Performed Unit Testing (using 1N-Unit), Integration Testing, Performance Testing and System Testing.
* Experience working with Microsoft Azure Cloud based **IAAS**, **PAAS** and **SAAS**
* Reproducing production issues in **UAT** / **DEV**/ **SIT** environments to analyze and solve the problem.

**Technical Expertise:**

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| **Program Languages** | C# 3.0/2.0/1.2, VB.Net 9.0/8.0/7.0, XAML, XML, SQL, PL/SQL, T-SQL, C++, C |
| **Microsoft.NET** | .NETFramework4.0/3.5/3.0/2.0/1.x,WebForms,WinForms,ADO.NET,ASP.NET4.0/3.5/3.0/2.0,VB.NET,WebServices,WCF,WCF,RIAServices,Silverlight4/3.0/2.0/1.1,WPF4/3.5/3.0,WWF,WindowsServices,EntityFramework4,LINQ, SharePoint. |
| **Patterns** | PRISM**,** MVC, MVC2, MVC3, MVP, MV-VM, |
| **Development Tools** | Visual studio 2010/2008/2005/2003, Visual Web Developer Expression Blend /Design |
| **Database** | SQL Server 2008/2005/2003, MS Access2007/2003, Oracle 11g/10g/9i |
| **Web Development** | HTML, CSS, XAML, XML, XSL, XSD, DTD, XSLT, DHTML, XHTML, SOAP, JSON, Adobe Flash MX, Java Script, php, VB Script, toolkit, Silver Light, Angular 2.0 |
| **Operating Systems** | Win 9x, win 2000/2003, Win XP, Win Vista, Win 7, Linux |
| **Versioning Tools** | Visual Source Safe and SVN Tortoise, Team Foundation Server (TFS) |
| **Standards** | MS Word, MS Excel, MS PowerPoint, MS Project, MS Visio |
| **Designing Tools** | UML, Rational Rose, Microsoft Visio 2010/2007, Microsoft Expression Studio (Web, Blend) |
| **Web/App Servers** | IIS 7.0/6.0, Personal Web Server |
| **Standards & Trends** | SOA (Service Oriented Architecture), DSA (Data Structure & Algorithm), UML Design Patterns |
| **Reporting Tools** | SQL Server Reporting Service (SSRS), Crystal Reports, SQL Server Integrated Service (SSIS), SQL Server Analytical Services (SSAS) |
| **Testing Tools** | N-Unit Testing, SOAP UI (Web-Service Testing) |

**Educational Documents:**

* **Master of Science (Information Systems)** from Harrisburg University of Science and Technology.
* **Bachelors in Computer Science and Engineering** from JNTU, Hyderabad, India.

**Professional Experience:**

**Fifth Third Bank, Cincinnati, OH May’2017 – Till Date**

**Full Stack Developer**

**Responsibilities:**

* Involved in development of **MVC** application using Dev Express controls.
* Application is built with **ASP.Net MVC**/**C#** with a SQL Server database.
* Involved in gathering the requirements, analysis, design & development of the project.
* Developed the project using **.NET Framework 4.5**, MVC 5 and Entity Framework 6.
* Customized **MS Dynamics CRM 2015** application based on the business requirement.
* Implemented and extensively used the Object-Oriented programming concepts in C#, ASP.NET 4.5 and MVC
* Created Views using Dev Express controls and implemented models using **C#**.
* Designed **SSRS** reports with sub reports, dynamic sorting, defining data source and subtotals for the report and deployed SSRS reports.
* Converted the Windows application to a Web based one, using **Angular** for the front end, the .NET MVC framework for the middleware and back-end, supported by Web API's that enabled anytime, anywhere access.
* Worked on supporting the **Microsoft Dynamics CRM 2015** and **Dynamics 365** production environment and resolving the issues for CRM production environment.
* Developed the application using **ASP.NET MVC** with Razor syntax, **Angular, C#.Net**
* Data operations are performed using Unit of Framework with **Entity framework 6**.
* Performed Entity Framework testing with Mocking Framework **NMock3.**
* Performed client-side validations using **Java Script** and **Ajax**.
* Developed single page application (SPA) with **Angular**, HTML 5, JavaScript and CSS in Visual Studio for dynamically updating the page and load in a single HTML page.
* Involved in migration of the current **Microsoft Dynamics CRM 2015** version to the **Dynamics 365 version**.
* Experienced in Developing and Enhancing Views, \_Layout Pages, User Controls and Custom Controls by using MVC, **HTML**, **CSS**, and Dev Express Controls.
* Developed Agile Software Development methodologies to enable efficient and effective high**-**quality software development.
* Used **Angular** Services $http for consuming REST API's.
* Experience with **SSIS** performance tuning using counters, error handling, event handling, re-running of failed **SSIS** packages using checkpoints and scripting with Active-X and **VB.NET** in **SSIS**.
* Extensive experience in Web using **MVVM**, MVC, JSON based development and WEB API 2.0
* Called the restful Web API web service calls for POST, PUT, DELETE and GET methods.
* Extensively used **JSON** to display validation messages on the Web Pages.
* Extensively used Advanced Find functionality and built Fetch XML's **Dynamics CRM**.
* Uses **ASP.NET** MVC framework to support use of Dependency Injection to inject objects into a class, instead of relying on the class to create the object itself.
* Worked on **.NET** framework **ASP.NET** **4.5** and on **MVC** with middleware Entity Framework Repository Pattern.
* Created Service Layer using **C#** and **WCF**. Used WCF, **XML**, WSDL and **SOAP** protocol for creating the web services.
* Used excel templates for data imports to and from **Dynamics CRM**.
* Used **AngularJS** accordingly for validation purpose, browser detection and controls.
* Built **AngularJS** framework including **MVC** architecture different modules, specific controller's templates custom, directives and custom filters.
* Hosted **WCF** services using windows process activation **WPA** on IIS7.
* Developed service class in **WCF** service to retrieve the user information
* Implemented HTTP protocol and SSL to secure the information between WCF Service and Client.
* Developed code to validate the user credentials for authenticating user to access the WCF service.
* Used **NLog** to trace the logging information. Created **NLog** unit tests.
* Worked on Website content and application release management and created virtual directories.
* Extensively involved in developing components for Models, Views and Controllers.
* Programmed **MVC** with Entity Framework 6 for communication between application and database, used Repository.
* Used **AJAX** to trade data with a Web Server without reloading the page.
* Used **TFS** for Version Control and source code maintenance needs.
* Performed data base operations using SQL Server Management Studio. Created Stored Procedures and **CRUD** Operations.
* Created and executed test plans for unit testing and integration testing.

***Environment***: .NET Framework 4.5/5.0, C#. NET, Visual Studio 2017, MVC 5, **Microsoft Dynamics CRM 365**, Angular JS, TFS, JavaScript, **Microsoft Dynamics CRM 15,** Entity Framework Repository Pattern, Angular2/4, Bootstrap, Dev Express, SSIS, SSRS, Spread Sheet Gear, WCF, Web API's,

Kendo UI, Enterprise Library, XML, SOAP, SQL Server 2016.

**Paccar, Renton, WA Jan’2016 – April’2017**

**Sr.Net Developer**

**Responsibilities**:

* Participated in requirement discussions, gather all requirements and created functional and technical documentation.
* Created RESTful API's using **MVC4** Web API's.
* Designed and Developed Win Forms using **C#**.
* Enhance **MS Dynamics CRM 2015** usability by designing and optimizing navigation, forms, and layouts.
* Extensive development using **C#**, **ASP.NET**, **VB.NET** Web Forms using **AJAX**, Master Pages, Themes, Web Parts, Provider Model, **JavaScript**. Also, involved in proof-of-concept using **ASP.NET** Model View Controller (**MVC**), MVC Pattern.
* Customized **MS Dynamics CRM 2015** application based on the business requirement.
* Designed and Developed Static and Dynamic pages validating client side and server-side scripts.
* Developed both Managed and Unmanaged solutions in **Microsoft Dynamic CRM 2015**
* Created Developed Business components for Order Tracking, reporting modules using .**NET** framework 3.5, **C#,** Visual Studio 2013.
* Performed integration of **CRM** with .NET through IFRAMES.
* Planning to rewrite windows application into web application wherein involved in creating POC in technologies like **HTML5** or **ASP.NET 4.0** with MVC.
* Migration of data from Excel source to **CRM** using SSIS.
* Designing and Deployment of Reports for the End-User requests using Web Interface & SSRS.
* Developing **WCF** services and consuming them in WPF and class library applications.
* Designed and developed **WCF** Web Services and configured our WCF Services with appropriate endpoints for consuming them in web applications.
* Developed User controls using **ASP.NET**, **VB.NET, WPF** and **C#** and used them dynamically in the web pages using Master pages and **CSS**.
* Implemented Power BI visualizations to **Microsoft Dynamics 365** personal dashboards.
* Designed MVC design pattern for **ASP.NET** application development using the **ASP.NET**, **MVC framework.**
* Used C# language for code behind pages to use the OOP's functionalities and to develop OOPS classes.
* Consumed some external Windows Communication Foundation (WCF) Services to write logs to database.
* Used the Object-Oriented Programming (**OOP**) techniques and created classes (**C#.NET**) for logs to the database.
* Developing **Web Forms** and windows forms for concerned applications.
* Created Dropdown and Drill through reports using **SSRS**.
* Developed different kind of reports such a Sub Reports, Charts, Matrix reports, Linked reports.
* Used **CRM** web service and developed a custom service using **WCF** to provide extended functionalities to the common methods of **CRM**.
* Designed, developed, maintained Application using **VB.Net, C#, WCF, ASP.NET 4.0, MVC 4.0, Angular JS, HTML, CSS.**
* Imported data from flat files to SQL Server database using **SSIS**. Written stored procedures in SQL server.
* Implemented search and **CRUD** operations using Entity Framework object model.
* Creation of database objects like tables, views, procedures using Oracle tools like **TOAD, PL/SQL** Developer.
* Used **Agile** Methodology (**Scrum**) to meet customer expectation, timelines with quality deliverables.
* Used **TFS** as source code management as a version Control.

***Environment***: ASP.NET 4.5, C#, Angular 2.0, Web-Services, Windows XP professional, Angular JS, WinForms, Angular 2/4, ADO.NET, Bootstrap, **MS Dynamics CRM2015,** SQL SERVER 2013, WPF, WCF, SSIS, SSRS, Visual Studio.NET 2015, HTML, CSS, JavaScript, TFS

**Vanguard, Malvern, PA May’2014 – Dec’2015**

**.Net Developer**

**Responsibilities:**

* Worked on **Analysis, Design, Implementation, Testing and Maintenance involved in writing technical specifications design document, deployment** documents and operations guide for operation support.
* Desired Timeline for completion of the project was met using **SCRUM Agile** methodology.
* Designed and developed rich and enriched web pages using **HTML 5 CSS** and jQuery.
* Implemented **Web Service, WCF, WPF, Web API REST service** which communicate data in XML, XAML&JSON.
* Front end development was done using **ASP.NET, CSS, Bootstrap, WPF, JavaScript, Ajax Control and Telerik Controls.**
* Involved in developing applications in **C#** 4.0 and .Net Framework 4.0 to meet the business requirements using Visual Studio.NET 2013.
* Involved in developing WCF Web Service using **SOAP/HTTP** to communicate with legacy systems
* Used **C#.Net** to design, develop and modify some applications.
* Designed and developed various abstract classes, interfaces, classes to construct the business logic using **C#.NET**.
* Extensively used **CSS 3.0** for page layout and display of graphics.
* Created Windows application which included a secure channel for Chat and Email.
* Worked with Business Analysts to gather requirements for enhancements to existing PowerBuilder.
* Responsible for designing the **ASP.NET** application authentication using **.Net framework, Model View Controller MVC and IIS security model.**
* Used AngularJS as development framework for building single-page application.
* Proficient in working with **Stored Procedures, Triggers, Cursors, Functions and Views on SQL Server and using PL/SQL.**
* Accessed data from Data Access Layer for the User Interface using **Web services**.
* Extensively worked on Web API and Web Services to provide SOA architecture and Configuration based activation applications on **SOAP and REST protocols**.
* Used Team Foundation Server (**TFS**) to maintain the version control history during development.
* Assisted in quality assurance measures such as code reviews, test case creation and unit testing for different modules.

***Environment***: C#, ASP.NET, VB.NET4.5MVC 5.0, .NET Framework 4.0, PL/SQL, VB.NET, JavaScript, SOAP, Rest, CSS3.0, ADO.NET, Bootstrap, AngularJS, SSIS, SSRS, Web Services, SQL Server 2012, Windows XP, IIS7.0, Visual Studio 2013, TFS.

**United Health Group, Bangalore, India Jan’2011 – Dec’2013  
Jr .Net Developer**

**Responsibilities**:

* Involved in design, development and maintenance of various application releases.
* Used **ASP.NET, C#, JavaScript and LINQ** to design and develop User Interface and business modules.
* Involved in development of database objects like stored procedures, functions to help store and modify user input data using SQL Server 2012.
* Involved in developing Windows Communication Foundation Services and Web Services for different applications.
* Involved in coding different layers of application like **Presentation Layer, Business Logic Layer and data access layer** by Using Visual Studio 2012.
* Used **LINQ TO XML and XPATH** to retrieve **XML** data from different types of XML.
* Used **ADO.NET** to communicate between User Interface and the SQL Server database.
* Used XSLT to transform XML's from one format of **XML** to another formats of XML.
* Involved in coding the test plans and test scripts using **NUNIT** in Visual Studio 2012.
* Used Team Foundation Server to create and manage Bugs, Work Items and Tasks in Visual Studio 2012.
* Perform Unit Testing to identify and resolve integration, functional and usability issues before deployment.
* Review the code to verify the accuracy, standards.
* Facilitated effective communication through the team regarding the Project and the Status of the Project.

***Environment***: Visual Studio 2012, .Net Framework 3.5/4.0, ASP.NET, C#.NET, LINQ, jQuery, WCF, NUnit, Team Foundation Server, CSS, JavaScript, XSLT, XPATH, SQL Server 2012, Windows 7, IIS, Windows Server 2012, MS VISIO.

**Rotech Info Systems Pvt. Ltd, Hyderabad, India. Feb’2010 –Dec’2011.Net Developer Intern**

**Responsibilities:**

* Gained experience working in a team-based environment.
* Extensively worked with Win Forms using **ASP.NET** **and C#.NET** developed the web application using C#.NET, **ASP.NET, ADO.NET, and SQL Server**.
* Interacted with client end -user during requirements gathering sessions.
* Worked with **ASP.NET AJAX** Controls and Extenders and Win Forms.
* Extensively used ASP.NET Validation Controls and **JavaScript** for client-side validations.
* Gained valuable experience working with **ASP.NET** and C#, developed application logic in C#.
* Responsible for writing stored procedures, functions using **T-SQL** to intercourse between tables to perform data operations on Oracle and SQL 2005/2008.
* Inner join left outer join were used during the project at back-end and business layer design.
* Involved in migrating the application from **ASP to ASP.NET.**
* Developed many Web Forms using C# and ASP.NET and used **AJAX** in some forms.
* Created and optimized views for user interactions using objects of **HTML Helper class**, Custom Helpers and JavaScript.
* Gained knowledge about Web Services for user authentication.
* Used **Windows-UI (XAML, HTML)** to enterprise, modernize &mobilize Win Forms applications.
* Used Active Directory for security and authentication for the different users and administration level.

**Skills*:***

.NET (8 years), C# (8 years), ASP (8 years), ASP.NET (8 years), SQL (8 years), NET, MVC, Angular, WCF, jQuery