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, MediaQueries, CSS Frameworks, AJAX, VB.Net, Java.**
* Experience in **Agile** software development methodology and Test-driven development (TDD) including **SCRUM** Framework.
* 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.
* Design **SQL queries** to produce required reports using **SQL** stored procedures for **backend development**.
* Modify **SQL queries** to produce new reports per users' requests as a part of the **backend dev**.
* 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 **AngularJS 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.
* 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.
* Used **ADO.NET** to make necessary communication with **backend database.**
* 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.
* Strong experience in working on the ITIL Process Configuration like Incident and Problem Management, Knowledge Management, Reporting, Gauges in ServiceNow
* Hands on experience in creating the custom Applications, Modules in ServiceNow.
* Hands on experience in Elastic Search.
* Implemented Elastic Search in the project.
* Experience in Index based search, ELK log analytics tool, Elastic Search.
* Experience in development and implementation of Windows Communication Foundation (**WCF**), and responsible for **developing WCF based Service, Data, Fault and Message Contracts and services.**
* 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 andperformance tuning in Entity Framework.
* Developed applications using **C#.NET, ASP.NET MVC**, TFS, VB.NET using SQL Server 200x and Oracle as **backend database server**.
* Good Experience in working with Jira Software, Jira Service Desk and Confluence installation, maintenance and administration
* 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**.
* Hands on experience with **SQL** Server Reporting Services (**SSRS**), SQL Server Integrating System (**SSIS**) 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**.
* Developed responsive web product features using React JS, SASS, on GoLang with REST.
* Built enterprise wide DNS historical data trending analysis tools in Go (Golang), Languages
* with REST API for user quieries as microservice
* Developed backup and recovery engine for VM backup/recovery using VMware vSphere APIs, GoLang programming language and RabbitMQ Message bus (communication interface).
* Created internal diagnostic tools using Golang and AngularJS in order to assist with customer issues. Golang and Java were used as a backend REST service while AngularJS was used for the user interface.
* Implemented Web Services (WSDLs) using JAX-WS and also implemented REST services by Golang with microservices architecture.
* Expertise in using source code control systems such as TFS and GIT.
* 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 |
| **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.
* 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#**.
* Design **SQL queries** to produce required reports using **SQL** stored procedures for **backend development**.
* Created a virtual Network on Windows **Azure** to connect all servers and applications on this platform.
* Designed **SSRS** reports with sub reports, dynamic sorting, defining data source and subtotals for the report and deployed SSRS reports.
* Used **ASP.NET MVC**, **Web API**, **SQL Azure**, **AngularJS**, **Bootstrap** for single page apps.
* Existing applications were Deployed to **Azure** after every enhancement
* Data operations are performed using Unit of Framework with **Entity framework 6**.
* Performed Entity Framework testing with Mocking Framework **NMock3.**
* Modify **SQL queries** to produce new reports per users' requests as a part of the **backend dev**.
* Used **Azure App** Insights for user activity &**exception logging**.
* Experienced in Developing and Enhancing Views, \_Layout Pages, User Controls and Custom Controls by using MVC, **HTML**, **CSS**, and Dev Express Controls.
* Used **ADO.net** to insert, update, and delete data from **SQL Server database** for **backend dev**.
* Developed Agile Software Development methodologies to enable efficient and effective high**-**quality software development.
* Developed and Implemented WCF services layer hosted on Windows **Azure**.
* Regular review, clean-up, management and configuration of JIRA accounts and work closely with the different teams like LDAP, Network, and Infrastructure
* Determine and optimize Jira setup
* Worked on Jira Agile Projects, creating the Kanban/Scrum Boards for the teams using the best practices
* **Use C#** and **Web Service** along with **ADO.net** to create, send, and receive data safely and securely as a part for **backend development**,
* Experience in Version Control repositories like **Git**.
* Used Amazon Web services and designed and built the first prototype of Docker support for **Elastic Beanstalk**
* Built new analytics solution for customers. Used **Elasticsearch** as backend.
* New full text search feature implementation with multi-tenancy (**Elasticsearch**).
* Efficiently handled periodic exporting of SQL data into Elasticsearch.
* Use **Javascript** and **jQuery** to manipulate DOM objects and create report widgets.
* Used **Azure** Monitoring service (Activity Logs, Metrics, and Diagnostics Data) for audit.
* Created internal diagnostic tools using Golang and AngularJS to assist with customer issues. Golang and Java were used as a backend REST service while AngularJS was used for the user interface.
* Implemented Web Services (WSDLs) using JAX-WS and implemented REST services by Golang with microservices architecture.
* Building a Command line tool to interact with RESTful API using in Golang.
* Used **ADO.NET** to make necessary communication with **backend database.**
* 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**.
* Used **Azure** Monitoring, OMS & Power BI for visualizing the activities.
* Extensive experience in Web using **MVVM**, MVC, JSON based development and WEB API 2.0
* Deployed the tools **Microsoft Azure Cloud Service** (PaaS, IaaS), and **Web Apps.**
* Written **PowerShellscripts** that are customized for a dataset – such as a morning health check, which outputs different base information on reporting
* Develop and automating the VM deployment in Azure using customized **PowerShell**, Scripting, CLI & API.
* Called the restful Web API web service calls for POST, PUT, DELETE and GET methods.
* Developed applications using **C#.NET, ASP.NET MVC**, TFS, VB.NET using SQL Server 200x and Oracle as **backend database server**.
* Extensively used **JSON** to display validation messages on the Web Pages.
* Deployed the Application in **Azure** cloud environment
* Implemented **Azure** Application Insights to store user activities and error logging.
* 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.NET4.5** 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 **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.
* Designed, built, and deployed application to **AWSstack** (Including EC2, R53, S3, RDS, Dynamo DB, SQS, IAM, and EMR), focusing on high-availability, fault tolerance, and auto-scaling.
* Integrated Open stack API with Amazon EC2 cloud-based architecture in **AWS**.
* Developed **AWSLambda**&**RDS** function to send a request for internal service end points through API Gateway using Apache Http Client.
* Hosted **WCF** services using windows process activation **WPA** on IIS7.
* Maintaining code base using **TFS** and later **GitHub**, as the client moved to **Git**.
* Developed service class in **WCF** service to retrieve the user information
* Perform **ServiceNow** system and application configuration and management.
* Configuration and development of the **ServiceNow** platform including scripting, workflows, business rules, client scripts, script includes, notifications, catalog items, portal functionality, Ajax, XML, etc.
* Management of **ServiceNow** update sets across all environments.
* Implemented **ServiceNow** LDAP integration with Microsoft Active Directory.
* Implemented**ServiceNow** Discovery including MID Server installation and configuration.
* Responsible for maintenance and development of Discovery and the CMDB.
* Worked with in-house developer on **ServiceNow** upgrade from Helsinki to Jakarta. Currently working on upgrade from Jakarta to Kingston.
* Worked on Bitbucket for creating PRs and Source Tree for making commits into server and gained exposure on Slack/ Gulp/Sass files.
* Integrating ServiceNow with Azure, PagerDuty and PeopleSoft (JDBC, Web Services, Data Sources).
* 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, Angular JS, TFS, JavaScript, Entity Framework Repository Pattern, Angular2/4,PowerShell,Bootstrap, Jira, Dev Express, Microsoft **Azure**,SSIS, SSRS,Spread Sheet Gear, WCF, Web API's, Elastic Search, GoLang, 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#**.
* 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.
* Designed and Developed Static and Dynamic pages validating client side and server-side scripts.
* Created Developed Business components for Order Tracking, reporting modules using .**NET** framework 3.5, **C#,** Visual Studio 2013.
* The use of AWS Storage gateway and S3 to integrate on premises database With AWS RDS. Performance methodology involved using saleable web technologies S3,EC2 with load balancing for distributed applications.
* The implementation of AWS best practices this involved outlining which components would be local and Which could move to the cloud. A Methodology was used which included the use of AWS services Lambda
* Wrote **PowerShellscript** to build application on windows.
* Used Microsoft Azure platform for the building, managing applications and deploying web applications. Created Azure virtual machines 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.
* Created events, email notification schemes and assigned project roles on Jira
* Used Go Programming Language (GoLang) and Scala in the development of the application.
* Created PDF reports using Golang and XML documents to send it to all customers at the end of month with internation language support.
* Backend proficiency using Node, Express, Google Go (Golang), MongoDb including 3rd¬party services Firebase, Kinvey and Parse.
* Provide user management, training, and support for Jira to Development and product, Project teams as needed.
* 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**.
* Involved in creating **azure** cloud service to store inspection data in Blob and sql **Azure**
* Played the role of Development Lead and Subject Matter Expert for implementing the solutions by using ASP.NT, MVC and SSRS.
* 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.
* Microsoft Azure and Amazon Web Services (AWS) Redshift. Implemented Security in Web Applications using Azure and Deployed Web Applications to Azure.
* Developed different kind of reports such a Sub Reports, Charts, Matrix reports, Linked reports.
* Designed, developed, maintained Application using **VB.Net, C#, WCF, ASP.NET 4.0, MVC 4.0, Angular JS, HTML, CSS.**
* Development level experience in **Microsoft Azure**, **ASP.NET** and **ASP**
* 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.
* Created complex Jira workflows for projects, Security schemes, screen schemes, Jira Vocabulary, permissions and notification schemes.
* Performed the Migration of **Jira** and Confluence instances.
* Experience with **AWS** and **Azure** services with workload requirements
* 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, Azure, Bootstrap, GoLang, SQL SERVER 2013, WPF, WCF, SSIS, SSRS, Jira, PowerShell, 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.
* Using Git for version control and Source Code Management.
* Used GOLANG to log the different host system event and alert information to Cassandra database.
* Designed and implemented lexer/parser for specification test files in Golang.
* Contributed source code in Golang to developing an automation framework for AWS CFN.
* Experience of the design patterns and best practices with golang(and more) to start with design and get to deployable production systems including scale monitoring and instrumentation platform.
* Enhanced, fixed functional and performance related bugs in core product written in GO (Golang).
* 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’2012 – 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.NETand 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 (8years), C# (8years), ASP (8 years), ASP.NET (8years), SQL (8 years), NET, MVC, Angular, WCF, jQuery