**RAMESH SHRESTHA**

[shresthartech@gmail.com](mailto:shresthartech@gmail.com)

561-301-2836

**PROFESSIONAL SUMMARY:**

* Over 5+ years of IT experience in **software analysis, design, development, testing and implementation of secure n-tier client/server web-based applications using .NET** Framework in different sectors.
* Comprehensive experience in implementing projects and responsibilities included all stages of project planning and **software development cycle**, **client interaction, problem definition, requirement analysis, architecture, development plan, research, system design, scheduling, coding, documentation, implementation, maintenance etc.**
* Proficient in using **Object-Oriented Programming** **(OOP)** concepts, **Object-Oriented Analysis** **and Design (OOAD)** concepts and **Design Patterns** like **Abstract Factory, Singleton, Factory** and **Dependency Injection.**
* Extensive experience with Microsoft .Net Technologies **(.NET Framework, ADO.NET, ASP.NET, C#, SQL SERVER, MVC , Entity Framework, WCF and Microsoft Azure)**
* Proficient in development of **Web based Applications**, have advanced experience working with multithreaded applications and also proficient with migrating from **ASP.NET**
* Experienced and Knowledgeable in **CMMI, Rational Unified Process (RUP),** **Agile Software** **Development**, **Waterfall cycle**, **Rapid Application Development (RAD)** and **Database & Test Driven Development (TDD)** methodologies
* Experience using Microsoft Visual Studio for projects involving **C#,** **Entity Framework, Web Services, HTML, CSS, JavaScript, MVC, Web Forms and WCF**
* Extensive experience in developing and consuming **XML Web Services using WCF, WSDL,** **UDDI, SOAP and LINQ.**
* Knowledge on developing Reports using **SQL Server Reporting Services (SSRS).**
* Exclusively developing and deploying Web Services using **WSDL, UDDI and SOAP.**
* Experience in creating Stored Procedures, Functions, Triggers, Cursors, Views and Joins in **SQL Server** **2008/2012/2014/2016.**
* Experience on **Angular 2** and **Angular 4** for creating single page applications which can bind data to views and synchronize data with the server.
* Experience in designing complex reports including sub reports and formulas with complex logic using **Crystal Reports on SQL Server.**
* Experience creating websites with **ASP.NET, HTML, CSS, JavaScript, Angular 2 / 4**
* Work on **Angular 4** for client-side validation, client-side behavior, and created the templates on routing configurations by applying states.
* Strong .Net skills and object-oriented design experience, including working knowledge of core **.Net libraries and WCF, design patterns.**
* Experience in designing and documenting **Web API and RESTful Services**, including **JSON** data formats and **API versioning strategy**.
* Developed various web services using **WCF** which can be consumed by web application and other systems.
* Use MVC Design Pattern to organize **Angular 4** controllers, custom directives, factories and views.
* Experience in **XML, XSLT, User Controls, Custom Controls, SOAP, WSDL, Web Services, Validation Controls,** Authentications like windows authentication and forms authentication.
* Experience in using Source Code Version Control Systems like **MS Visual Source Safe (VSS), TFS (Team- Foundation Server) and Git.**
* Experience in configuring **Azure** cloud service for end point deployment.
* Excellent communication skills with clear understanding of the business rules and ability to work in a multi-cultural multi-stakeholder environment.

**TECHNICAL SKILLS:**

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| **Technologies:** | ASP.NET, ADO.NET, HTML5, CSS3, XML, Bootstrap, JavaScript, PHP, jQuery, Web Forms, MVC 4.0/5.0, AngularJS, Angular 2, Angular 4, JSON, Ajax, NHibernate, Entity Framework, LINQ, Git/GitHub, Microsoft Office Suite (Word, Excel, Access, and PowerPoint) |
| **Designing Tools:** | Microsoft Visio |
| **Scripting:** | JavaScript, ASP, JQuery |
| **Databases:** | SQL Server (2016, 2014, 2012, 2008) |
| **Languages:** | C, C++, C# |
| **Web Services:** | Windows Communication Forms (WCF), WSDL, Web API |
| **Protocols:** | SOAP, SSL, FTP, TCP/IP, HTTP |
| **Development IDE:** | Visual Studio (2017, 2015, 2012), SQL Server Management Studio |
| **Operating Systems:** | Windows, Mac OS, Linux |
| **Reporting Tools:** | Crystal Reports, SQL Server Reporting Services (SSRS)2008 |
| **Web Servers:** | IIS (8.0/6.0) with .NET Framework |
| **Version Control:** | Team Foundation Server (TFS), Git |
| **Cloud:** | Microsoft Azure |
| **Design Pattern:** | Singleton, Factory, Abstract Factory, MVC |

**EDUCATION:**

* Bachelor of Science in Computer Science | Mississippi State University

**PROFESSIONAL EXPERIENCE:**

**Florida Power & Light Company, Juno Beach, FL December 2017 – Till date**

**Role: .Net Developer**

**Description:**

The project seeks to manage existing employees, automate the new employee registration and onboarding process at the company using a web application. The application handles steps ranging from registering the new employee’s legal information into the company database and having the employee complete the legal paperwork, to granting them access to various systems and tools used by the company internally. The application also records employees’ assigned projects, their performances, medical records, yearly bonus information and gratuity, and handles leave management and retirement using a user-friendly user interface.

**Responsibilities:**

* Adopt **Agile Methodology** to collaborate with **SCRUM** team members to work on Sprint deliverables.
* Update Core Company System modules using **C#, MVC 5, .Net** **4.6 Framework** in **Visual Studio 2017** using **factory design pattern**.
* Restructure code to improve application readability, optimization, and maintainability, used **MVC** bundling to improve application performance.
* Implement business logic using **MVC** Filters like **MVC Authorization filters**, **action filters** and **exception filters**.
* Develop View-Models to restrict the controllers to control the dataflow between the model and view.
* Use **custom routing** for multiple **URL patterns**, areas for proper organization and action filters for logging mechanism.
* Develop a defined request-response message system, typically expressed in **JSON** or **XML**, which is exposed via the web - most commonly by means of an **HTTP**-based web server by a server-side **ASP.NET Web API.**
* Create data models in **MVC** using **Entity Framework 6** **Database First approach.**
* Define **Domain Entities** and **Relationships** using **Microsoft Entity Framework Database First approach.**
* Develop **Data Access Layer** (**DAL)** using **LINQ** Data context object with **Entity Framework** for **LINQ.**
* Connect to relational data by writing **LINQ** to **SQL** queries using **Entity Framework**,
* Implement **LINQ** functions using **Lambda Expression** to perform CRUD operations
* Work with data migration and use tools like **SQL Server integration services (SSIS)** in transferring data from one database to another.
* Develop Razor views with strongly typed view models and **HTML** Helpers and views using **HTML**, **CSS, Bootstrap, AJAX.**
* Create Single Page Application with **Angular 4** Router Module
* Work on **Angular 4** for client-side validation, client-side behavior, and created the templates on routing configurations by applying states for different modules.
* Incorporate different built-in **AngularJS** directives like **filter, ng-show** and **ng-repeat** for implementing filter and grid view.
* Involve in writing **Angular 4** based **HTTP** Request Services to perform **CRUD** requests to **REST API**.
* Perform basic Authentication and Token based custom Authorization in **Web API**'s using Action Filters.
* Configure and expose **RESTful** services utilizing **Web API** framework.
* Develop applications in **TDD (Test Driven Development)** environment using **Unit testing**
* Convert the application to **Microsoft Azure** Cloud Service Project as part of cloud deployment
* Migrate **SQL Server** database to **Microsoft Azure** SQL Database and updating the Connection Strings
* Create **SSRS** for reporting purpose and use **Git** for source control.
* Create Solution Architecture based upon **Microsoft Azure** PaaS services.

**Environment:** .NET Framework 4.6, C#, MVC 5, ASP.NET, Entity Framework 6, LINQ, SSRS, Visual Studio 2017, SQL Server 2016, GIT, Web API, HTML, XML, CSS, Bootstrap, AngularJS, Angular 4, AJAX.

**BankFirst Financial Services, Starkville, MS April 2016- November 2017**

**Role: .Net Developer**

**Description:**

The project targeted at designing and creating a robust, secured, and functionality rich banking application using reusable software components and a secured database for in-house purposes. The application interacted with various web services to enable user validation, data storage, and account protection. The application provided an easy-to-use interface for the staff to navigate and perform their desired tasks. The application accommodated functionalities for several aspects of banking such as account management, payment, loans, and customer service using third-party services.

**Responsibilities:**

* Worked on **Software Development Life cycle (SDLC)** starting from Requirements gathering and performing objects-oriented analysis, design and implementation.
* Designed **MVC** design pattern for **ASP.NET** application development using the **ASP.NET MVC framework.**
* Extensively involved in Developing Components for **Business Layer** and **Data Layer** in implementation of **MVC Architecture.**
* Worked on generic classes using **C#** to create Support **Functions and Database Operations**.
* Implemented **database modeling** and **database schemas** and created **stored procedures** in **SQL Server Database**.
* Implemented **Database First approach** to retrieve and store data in entity models using **Entity Framework**.
* Used **Grid Views**, **Form Views**, **Details View** and **Object Data** Sources extensively.
* Worked on database and .net application performance tuning to reduce the request processing load on server and having excellent .NET application and database debugging skills on **scale up** and **scale out** applications.
* Participated in development of a well responsive single page application using **Angular 2** framework, **JavaScript**, and **jQuery** in conjunction with **HTML, CSS** standards, with **front-end UI team**.
* Created TypeScript reusable components and services to consume **REST APIs** with component-based architecture using **Angular 2**.
* Applied **Angular 2** concepts such as two-way data binding, and created custom directives in **Angular 2**
* Developed System Settings module for user customization of the application.
* Generated view templates including functions of searching, sorting, editing, deleting and adding with built-in pipe and custom pipes to format output and implement filtering functions.
* Developed new **WCF** Service interface layer to communicate between **DAL** and other business components and exposed only external application API to retrieve different levels of data.
* Applied **WCF** methods for database operations **(CRUD)** through Entity Framework.
* Configured major modules like **Users, Roles, Entities, Entity Types**, and **Reports** and used **REST** services for requesting information from endpoints and tested them using Fiddler.
* Actively participated and provided feedback in a constructive and insightful manner during weekly Iterative review meetings to track the progress for each iterative cycle and figured out the issues.
* Incorporated **TFS (Team Foundation Server)** for all the source code maintenance among the whole team.
* Deploy builds to through **Azure**, troubleshooting and debugging issues as they arise.
* Worked on uploading documents to **Azure** blob storage, downloading and deleting, updating the document names using two different approaches of **Web API** and **MVC** controller methods.

**Environment:** .NET Framework 4.6, Visual Studio 2015, C#, ASP.NET MVC 5, Entity Framework, SQL Server 2014, Angular 2, JSON, XML, HTML, CSS, IIS, TFS

**Heavy Construction Systems Specialists Inc, Houston, TX October 2014 – March 2016**

**Role: .Net Developer**

**Description:**

HCSS has been developing software for thousands of construction companies across the nation as is recognized as one of the pioneers in this domain. The project aimed at developing a web application to help contractors from project initiation to completion, along with functionalities to manage daily tasks in the working field, track labor and equipment, and keep workers safe on the job.

**Responsibilities:**

• Involved in the complete **Software Development Life Cycle (SDLC)** including **Analysis, Design, Implementation, Testing** and **Maintenance**

• Implemented **Agile Software Development** methodologies to enable efficient and effective high-quality software development

• Extensively used Tools/Technologies like **C#, Visual Studio 2012, ASP.NET, Entity Framework, WCF, IIS, Enterprise Library, XML, AJAX, WEB API, SQL Server 2008**

• Developed new code to support business functional requirement and rules

• Work with business groups to define **Software Requirements specifications (SRS)**

• Experienced in Developing and Enhancing **MVC, Layouts, Partial Views by using HTML, CSS**

• Implemented Reports Functionality using modules **UI (MVC), Service (Web API**)

• Designed MVC design pattern for **ASP.NET** application development using the **ASP.NET MVC** framework

• Implemented **Code First Approach** and **Entity Framewor**k for **Data Access Layer (DAL)**

• Developing the services of the application using **Web API**

• Used Entity Framework to connect to the databases in a disconnected oriented Architecture

• Extensively involved in developing components for **Business Layer** and **Data Layer**

• Used **Team Foundation Server (TFS**) for **Version Control, Team build, Project Management, Data Collection and Reporting**

• Familiar with Unit and Integration Testing by using **Dot-Coverage tool, VS Automated Unit Testing Framework and MS testing**

• Development of prototypes using various tools like **Power Point** and **HTML Forms**

• Worked on the application to convert to **Microsoft Azure** Cloud Service Project as part of cloud deployment

**Environment**: C# .Net, ASP.Net, MVC, WCF, .Net Framework 4.0, Visual Studio 2012, Entity Framework, XML, XSL, JavaScript, SSRS, Web services, SQL Server 2012, TFS, IIS, Team Foundation Server

**Om Hospital & Research Centre Pvt. Ltd., Kathmandu, Nepal January 2014 – June 2014**

**Role: .Net Developer**

**Description:**

Om Hospital and Research Centre Pvt. Ltd is one of the leading hospitals in Nepal which provides medical services at competitive rates and conducts research on various medical sectors. The project focused on developing a hospital management application that would keep track and records of its doctors, nurses, patients and other staff personnel information in a secure database and adopt a fully computerized system for staff management, doctor management, patient management, laboratory management and account management.

**Responsibilities:**

* Incorporated **agile methodology** in building up the application and have solid knowledge in **agile methodology.**
* Created **web services** for Administrative Services, Configuration Services and Account Services.
* Adapted **database modeling** and **database schemas** and created **stored procedures** in **SQL Server 2008.**
* Designed and developed User Interfaces **ASP.NET on Visual Studio 2012** .
* Worked on **generic classes** using C# to create Support Functions and Database Operations.
* Implemented **OOP** concepts like Inheritance to develop Base common and Base Secure modules.
* Developed **ASP.NET pages using C#, HTML, CSS and AJAX** on the approved Design Document.
* Enabled **ASP.NET** Validate controls to handle Server-Side validations and **JavaScript** to handle Client-Side validations.
* Created **SQL Tables, Views, Queries,** and Stored Procedures to store and update the data with all staff, doctors, patients, account information, nurses and laboratory information.
* Provided extensive documentation for all the modules or products worked on.
* Assembled generic secure and reusable data access components using the **ADO.NET** objects such as **Dataset, Data Adapter, and Data Reader.**
* Developed System Settings module for user customization of the application.
* Worked on major modules like Admin, Staff, Account, Laboratory, Patient Records and Reports.
* Created Doctors records, Nurses records, Staff records, Active Patient’s Records, Patient’s History, etc., reports using **SQL** Server Reporting Services
* Worked on database and .net application performance tuning to reduce the request processing load on server and having excellent **.NET** application and database debugging skills on **scale up and scale out** applications.

**Environment: .**NET, ASP.NET, .NET Framework 3.5, Visual Studio 2012, XML, XSL, JavaScript, SQL Server 2008, SSRS, ADO.NET, Web services, IIS 6.0, EO Tool kit and Team Foundation Server.