**Professional Profile: Kunal Tripathi**

**SUMMARY**

Kunal is an experienced technology professional with an extensive background in Development. Throughout his career, Kunal has performed both front end and back end development leveraging ASP.NET. In recent years, Kunal leveraged CSS, JS, jQuery and Bootstrap for the front end and SQL server for back end functions. Kunal has also utilized active directory, leveraging angular 2|4 and .NET Core. Kunal seeks to leverage his current development knowledge to add value to your development team.

**PROFESSIONAL EXPERIENCE**

**Metasys Technology – Dallas, TX Feb 2017 – Present**

**Software Developer**

* Responsible for designing, developing, and deploying various projects for the client

**Project: .Net Core Application**

* Leveraged MongoDB, C# (API library), and Angular 2/4 for the UI
* Designed, implemented, and deployed the application for the RIS client Kansas City Southern Lines
* Developed the application from the ground up, and deployed it on the clients’ servers
* Developed the intranet application leveraging the .Net Core (.NETCoreApp 1.1/2.0) Framework and hosted on Windows Server (IIS) with Windows authentication
* Gathered requirements from end users and setup the entire application from scratch based on decisions made after conducting extensive research
* Developed the front-end leveraging the following technologies: Angular 2/4, HTML5, CSS, Typescript, and other node packages, such as PrimeNG and Material
* Created a C# Web API library for the front-end to communicate with the MongoDB back-end, which involved leveraging MongoDB C# driver to perform CRUD operations
* Made important design decisions for application authentication, authorization, logging, and eventual deployment
* Coordinated with various teams to setup essential requirements, such as requests for Active Directory, DNS, SSL, load balancing, etc.
* Setup the VS Team Services repository for the application

**Project: MVC 5 Application**

* Leveraged C#, SQL Server and Razor, Telerik, HTML, CSS, JS, Bootstrap etc. for UI
* Designed, implemented, and deployed a second web application for RIS as a proof of concept for their other clients in the railroads industry
* Involved in developing this a cloud-based application with the front-end and back-end hosted on the Microsoft Azure platform
* Developed the front-end here leveraging the .Net MVC 5 framework and the back-end with MS SQL Server
* Designed and developed a responsive front-end UI leveraging the MVC 5 architecture and web technologies, such as HTML5, CSS, JavaScript, etc., with third-party tools, such as Telerik, Kendo UI controls, and Leaflet
* Designed table schemas and wrote SQL queries (stored procedures and functions) for the MS SQL Server database
* Created a C# library as a Data Access Layer for the MVC application
* Deployed the application on Microsoft Azure (cloud platform) and leveraged its features, such as Azure Active Directory, for user authentication and authorization
* Deployed the cloud-based web application and SQL Server database to their clients’ servers
* Setup the VS Team Services repository for the application

**Project: Upgrading the UI of a .Net MVC App**

* Performed a UI upgrade of an existing .Net application leveraging Telerik controls and Bootstrap style library for the RIS client Rio Grande Pacific Corporation
* Wrote this MVC 5 (MVVM) application in C# with Entity Framework
* Modified and conducted testing on any back-end code changes that were necessary to incorporate the UI modifications
* Leveraged LINQ to perform database CRUD operations
* Setup the VS Team Services repository for the application

**Project: .Net Core Application**

* Leveraged MongoDB, SQL Server, C# (API), and Angular 2/4
* Designed, implemented, and deployed a proof of concept application with various tools to aide railroad companies
* Developed the front-end leveraging Angular 4 framework
* Involved in developing this enhancement to the first project with various additional features
* Implemented a chat feature leveraging .Net Core 2.1 framework’s SignalR library
* Created interactive tools leveraging SVG to visualize track lines and allow for user interaction
* Created a map tool leveraging Leaflet and GeoJSON to visualize track lines on a map
* Populated the map with real time markers for trains via data available from consuming a RabbitMQ queue
* Setup the VS Team Services and a GitHub repository for the application
* Conducted the initial research and performed proof of concept development for a native application leveraging the Electron framework

**Summitworks INC Nov 2011 – March 2014**

**Software Developer**

**Clients: Verizon and Three Sigma Software**

* Designed and developed n-tier and service-oriented applications in .Net Framework (C#.Net, MS-SQL)
* Developed a public facing, cross-browser compatible and ADA compliant web application (VB.Net, Oracle)
* Responsibilities included following the company standards for the UI and backend coding including updating backend code and UI controls for newer version of .Net Framework
* Designed database tables with accompanying DML, DDL, DCL and TCL statements in T-SQL and PL/SQL along with performance optimization
* Created and consumed WCF services and Web Services (SOAP based)
* Converted classic ASP pages (VBScript) to ASP.Net web pages
* Worked with clients to gather requirements and provide enhancements to existing applications
* Developed applications that allowed clients to communicate with legacy mainframe systems from their web applications directly, eliminating any third part mainframe tools
* Gathered requirements and automated processes for operations on mainframe systems via the web application
* Provided support for newer and existing applications by fixing bugs and performing code updates

**EDUCATION**

**Master of Science in Computer Science**

University of Texas at Dallas- Dallas, TX

**Bachelor of Science in Computer Engineering**

SUNY at Buffalo – Buffalo, NY