**Preethi**

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**Professional Summary:**

* Around 7 years of experience in Systems Analysis, Design, Development, and maintenance of various applications including Web and Client/Server Applications using Microsoft .NET core, C#, ASP.NET.
* Experience in design and development of web applications using Net Technologies (C#.NET, ASP.NET, ASP.NET MVC, ADO.NET, .NET Framework(4.0, 4.5,4.8), .NET 5 and above, Azure, Windows Services, ADO.Net, Entity Framework, WCF, Web API).
* Experience in using Microsoft Azure services such as AppServices, AppInsights, Service Bus, EventHub, etc.
* Good Knowledge of the cloud provisioning tool Terraform.
* Experience in maintaining the application and resolving production issues.
* Expertise in prototyping and delivering end-to-end solutions.
* Experience working on version controlling using TFS, and SVN clients.
* Strong knowledge and experience in a programming language (OOPS concepts, Classes, Objects, Polymorphism, Encapsulation, Inheritance, etc.).
* Expertise in SQL Server.
* Working knowledge of defect tracking tools like JIRA etc.
* Strong understanding of HTML, CSS, JavaScript, web services, Visual Studio, design, and Windows services.
* Have knowledge of working on Ticketing tools.
* Experience in the design and development of applications using .NET Framework, C#.NET, ASP.NET, Visual Studio 2022, AJAX, SQL Server, and UML.
* Some experience with Azure, DevOps (CI/CD) development.
* Expertise in developing UML Diagrams using Rational Rose and Microsoft Visio.
* Hands-on experience in UNIX for shell programming and deploying code on Azure servers.
* Expertise in handling on-site/offshore deployment activities. Worked on all key aspects of project management, opportunity identification, risk identification, resource identification and planning, project proposal, etc.
* Extensive experience in the preparation of Functional Test cases and Test Plans.
* Working knowledge of full Software Development Life Cycle (SDLC) with scrum Agile.

# Technical Expertise:

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| --- | --- |
| Programming Languages | C#, ADO.NET, ASP.NET, MVC 5, .Net Core, Web API, C. |
| Frameworks | **.**NET 2.0, .NET 3.0, .NET 3.5, .NET 4.0, .Net Core 3.1 and above |
| Web Technologies | HTML5, XML, CSS3, JavaScript, jQuery, Kendo UI |
| Operating Systems | Windows (7,8,10), Linux (Ubuntu) |
| Bug reporting tools | Jira |
| Web Servers | Apache, IIS |
| IDE | Eclipse, Visual Studio 2017, ThingWorx 8.1 |
| Databases | MySQL, Oracle, SQL Server |

**Certifications:**

● Microsoft Certified: Azure Developer Associate

● Microsoft Certified: Azure Administrator Associate

● Microsoft Certified: Azure Fundamentals

**Professional Experience:**

**Digital Plant, TCS Oct 2020 to Present  
Role: Software Developer**  
  
**Responsibilities:**

* This project provides digital plant data from various locations and real-time data reports. Based on
* the access constraint, the user will be able to view and edit the details.
* The real-time data will be parsed and stored on the Sql database.
* The client will be able to perform analysis and generate reports.
* Analyzed user business requirements, and functional specs and assisted the Team lead in writing the Test Plans.
* Worked in Agile model, Sprints, and Short releases.
* worked on Visual Studio IDE for developing ASP.NET core applications.
* Used C#, MVC, and ASP.NET in the application. The service layer was developed using ASP.NET web API in .Net 6 for RESTful services.
* Configured existing APIs to use Azure API management to use features like throttling, security, analytics, etc.
* Used Azure Service Bus as the message broker and wrote Function apps to process the messages.
* Developed User Interface using HTML, JavaScript, jQuery, CSS, and Bootstrap.
* Developed RESTful services using .Net Core WebApi.
* Used entity framework to access data from a database in a web application.
* Created Front end UI using HTML5, CSS3, JavaScript.
* Developed the classes using C#, which incorporate N-tier architecture and database connectivity.
* Written Manually Functional Test cases for testing.

**Environment:** C#, ASP.NET, SQL Server, JavaScript, Azure, Azure CICD, Visual Studio IDE, Postman

**Department of Revenue, Kentucky Jan 2019 to Aug 2020**

**Role: Software Developer**   
  
**Responsibilities:**

* Prepared design documents and use case scenarios based on the business requirement.
* Developed and maintained C# application and provide support in production issues.
* Used Web API as an ideal platform for building Restful applications on .NET .
* Created Web applications using MVC, ASP.NET core.
* Followed Agile methodology for application development and deployment.
* Executing SQL Queries and establishing database connections.
* Understand the industrial domain and working of assets, device requirements, and its integration with the Platform.
* Developed various stored procedures for data retrieval from the database.
* Design technical solutions using different services, work with offshore teams to explain requirements and design and manage/accommodate constantly evolving business needs.
* Develop and implement the end-to-end solution to handle the security, performance, and scalability issues.
* Followed Agile methodology for application development and deployment.
* Written Functional Test cases for manual testing.

**NTT Data Services, India Oct 2015 to Aug 2018**

**Role: Associate Software Developer** **Smart Insurance**

* The smart Insurance application provides users with real-time home data and rule-triggered alerts notifying both the user’s mobile and a command center dashboard provided by NTT Data of any potential abnormality.
* This application uses a Samsung Smart Home kit with various sensors (e.g., motion, water-leak, fire detection sensors) to collect the data and use ThingWorx to analyze and display the data to the end users.
* The users (homeowner and command center user) will have the ability to either dismiss the alert or perform a pre-determined action i.e., cut-off water.

**Responsibilities:**

* Prepared design documents and use case scenarios based on the business requirement.
* Created stored procedures, functions, views, triggers, cursors, and complex SQL queries and optimized queries for better performance
* Developed a C# application to collect the data from the sensors.
* Developed ASP.NET web pages for authentication, registration, maintenance, document uploading, and approval system
* Developed UI dashboard using Angular 4.
* Used Groovy to parse the data received from sensors into JSON format.
* Configure the User Interface to showcase custom components like Heat-maps, Money meters, Risk and maintenance alerts status
* Responsible for front-end testing involving sensor connectivity.
* Installed IIS on Windows Server 2012 R2. Built, configured, and deployed IIS Web sites.
* Installed and configured SSL Certificates.
* Tested REST APIs using Postman.
* Checked the data flow from the front end to the back end.
* Responsible for testing the configuration of the User Interface to showcase custom components like Heat-maps, Money meters, Risk and maintenance alerts status.
* Deployed the application on the Apache server.
* Simulate the actual user environment using sample data and fix any bugs identified.
* Document the use cases.
* Review UI and suggest enhancements to the application as per Client requests.

**Environment:** C#, ASP.NET, SQL Server, IIS, Visual Studio IDE, Postman, Windows 7, HTML, CSS, Jira

**Connected Health**

* This is a Gateway application that collects data from various health-related sensors like Ihealth, Fitbit, Jawbone, and Cova Necklace.
* This aggregated data is then pushed to the ThingWorx platform creating a truly connected healthcare application through which predictive healthcare is provided to patients and doctors.
* Responsibilities:
* Documented the use case and design of the system.
* Configuring the servers (Web servers and App servers) in the SIT and UAT environments and installing the required software.
* Wrote code to collect data from various health-related sensors like Ihealth, Fitbit, JawBone, and Cova necklace. The aggregated data is pushed to the UI dashboard.
* Used ADO.NET extensively for data retrieving, querying, storage, and manipulation.
* Created a consolidated dashboard for the doctor that shows the health parameters of patients, and individuals as well.
* Developed UI frontend and backend to remotely monitor the health parameters of the patients. This data is stored in the default ThingWorx database and the medical records are sent to the EMR.
* Enabled Push notification to the patient’s mail, mobile number, and concerned people in case of emergency.
* Performed testing on multiple user logins (doctor, patient) pages based on the use case scenarios. Created a consolidated dashboard for the doctor that shows the health parameters of patients, and individuals as well.

**Environment:** C#, ASP.NET, SQL Server, IIS, Visual Studio IDE, Rest API Postman, Windows 7, Dell Gateway enabled with Ubuntu, HTML, CSS, Jira.

**Indy Car Racing – Smart Shirt**

* This application monitors health parameters of the car driving race along with different car parameters like speed, acceleration, location tracking steering and brake pressure. The driver wears a special garment incorporating a hitoe wearable, a functional material which acts as a sensor, capturing bio signals from the heart and muscles of the driver.
* The data collected is analyzed and visualized with the aim of enabling drivers to enhance performance and train effectively. This data also has the potential to prevent accidents during the race.

**Responsibilities:**

* Involved in Business Requirement Walkthrough and preparing Test Cases.
* Solely involved in all the phases of SDLC including Requirements Collection, Design & Analysis of the Client Specifications, Development and Deployment of the Application.
* Troubleshoot and resolve bugs in .NET applications to ensure an optimal development environment.
* Implemented the Services (API handlers) in the Thing to handle the requests coming from the client and parsed the json files to the respective data tables.
* Created web application using C#.
* Exposed the REST API’s in ThingWorx platform that is deployed on the AWS server which allows the application to push the car health condition and the stress levels of the driver (ECG, EMG).
* Developed custom UI components to visualize the data.
* Wrote multiple use case scenarios to perform analysis on the data collected from the Hitoe wearable.
* Updated user stories on Jira and bug reporting.
* Deployed the application on the AWS server which allows the application to push the car health condition and the stress levels of the driver (ECG, EMG).
* Analyzed overall performance of the system after integrating with all modules.
* Conducted Integration Testing between application and external application (Sensor).
* Involved in testing the publish/subscribe model of MQTT.
* Performed testing on live dashboard that shows the live data of the car race in various scenarios. Wrote JavaScript based services on the server which handles the API calls from the java application, perform analytics and show the health insights related to both car and driver.

**Environment:** C#, ASP.NET, SQL Server, ADO.NET, IIS, Visual Studio IDE, Rest API Postman, Windows 7, Dell Gateway enabled with Ubuntu, HTML, CSS, Jira.

**Education:**

Bachelor of Technology in Computer Science and Engineering (2015)