**Piyushkumar**

**SENIOR FULLSTACK|.NET|SQL SERVER|AZURE DEVELOPER**

Motivated and results-focused seasoned web developer with a master’s degree in computer applications and over 15 years of proven experience of complex web design and development. Possess a combination of motivational leadership, effective problem-solving, and an array of analytical and technical skills. Communicative and detail-oriented, learns and adapts quickly, works meticulously, and serves internal and external customers with poise and professionalism. Demonstrated ability to cultivate lasting relationships with team members and critical clients, and expertise in **C#, VB.Net, ASP.Net, MVC, Web API, REST-API Services, Windows Azure, DevOps, ADO.NET, Entity Framework, Azure Data Factory (ADF), SSIS, ETL, ELT, jQuery/Angular, .NET Core 6.0+ and SQL Server, Cosmos DB, PostgreSQL, Oracle, JSON/XML**, **Razor**, PowerShell, web farms, design and development of web technologies, and coding standards by industry. Seeking a web developer role to apply strong technical skills and a winning mindset to the growth of a top tier organization.

**Summary:**

Proficient in harnessing **.NET Core (Versions 8, 6)** and Angular **(Versions 18, 16)** to develop sophisticated web applications, employing **C#12** and **OOPS** principles with a focus on **SOLID** principal and **singleton** and factory design pattern. Skilled in Entity Framework for streamlined data access and manipulation, backed by **SQL Server** for robust database management. Experienced in leveraging Azure's ecosystem, including **Azure Service Bus** and **Azure Functions**, for efficient communication and scalable serverless computing. Proficient in **REST API** development to ensure seamless integration across systems. Expertise extends to **SSIS** and **SSRS** for **ETL** processes and reporting solutions. Capable in **Kubernetes** and **Docker** for containerization and **AKS** cluster management in **Azure**. Well-versed in migration and deployment strategies, ensuring smooth transitions and optimal performance in production environments. Committed to providing comprehensive production support, with a strong focus on **troubleshooting** and issue resolution. Proficient in implementing **Dependency Injection** for modular and maintainable codebases. Additionally, possess extensive experience in designing and developing **microservices** architectures, enabling scalable and resilient systems.

**Technical Proficiencies**

**Databases |** Microsoft SQL Server 2022/2019/2015, MySQL, Oracle, MS Access

**Web Development |** Net Core 8.0/6.0, Angular 18/14/12/10, ASP.Net, **C#** **12**/11/10…, VB.Net, ADO.Net, Web API/Rest API, Typescript 4.0, MVC4, Web Services, LINQ, ADO.Net, XML, MVC4, ASP, HTML5, CSS3 and CSS, XSL, Ajax, jQuery, JSON, JavaScript, Node JS

**ORM / Data Access technology:** Entity Framework, LINQ to SQL, ADO.Net

**Security:** JWT authentication, OAuth 2.0

**Cloud technology:** Azure, Azure Data Factory (ADF), ARM ***(***Azure Resource Manager), DevOps, Continuous Integration and Continuous Delivery (CI/CD),

Blue-Green/Canary deployment/Kubernetes deployment, Docker

**Development Tools** **|** Visual Studio.NET 2022/2019, Visual Studio Code 2022, SQL Server Management Studio Visual Studio Code, SSIS, SSRS, ETL, ELT, ADF

**API Platform:** Postman, Swagger

**Software Development Methodologies:** Agile, SDLC, Waterfall

**Design Pattern:** Singleton, Factory

**Procedural Language:** PL/SQL

**Version Control / Project Management:** Git, TFS, VSS, Basecamp, Azure Boards

**Operating Systems:** Windows 11/10/7/XP, Windows Server

**Web Servers |** IIS (Load balanced Web Farm, Application pools)

**Batch Programming |** Oracle PL/SQL, C# Console Application Batch Scripts, Argent Job Scheduler

**Debugging & testing Tools |** Selenium, Visual Studio, Firebug

**Reporting Tools:** Crystal Reports

**Educational Details:**

* **Master of Computer Applications** from Bhavnagar University, Gujarat, India, **2006**.
* Bachelor of Science in **Computer Science** from South Gujarat University, Gujarat, India, **2003**.

**Professional Experience**

**California student aid commission**   **Jan 2023 – Present**

**Senior Software Developer (.NET and SQL Server)**

***Key achievements:***

* Created robust software architectures tailored to meet project requirements, ensuring scalability, maintainability, and optimal performance.
* Utilized **Agile** methodology to drive collaborative, iterative development cycles, ensuring rapid delivery of high-quality software solutions.
* Designed and maintained both frontend and backend components using **Angular** (versions 14, 16, 18), **C# 12**, and ASP.NET, ensuring responsive user interfaces and efficient business logic processing.
* Implemented scalable web applications using **.NET 8**, MVC architecture, leveraging the Model-View-Controller (**MVC**) design pattern to architect and develop robust, scalable web applications. Effectively separated concerns, ensuring clean code and maintainability, facilitating seamless collaboration between frontend and backend teams, resulting in accelerated development cycles and streamlined project delivery.
* Managed applications integrated with **SQL Server 2022**, Cosmos DB, ensuring efficient data storage and retrieval processes.
* Proficiency in crafting efficient and robust stored procedures within **SQL Server 2022**, leveraging **T-SQL** to encapsulate business logic and streamline database operations.
* Extensive experience in database design, implementation, and maintenance, ensuring optimal performance and scalability in SQL Server environments.
* Advanced knowledge of **indexing** strategies, query **optimization** techniques, and transaction management, enhancing overall **database performance** and responsiveness.
* Skilled in database administration tasks including **backup** and **recovery**, security management, and **performance monitoring** to maintain data integrity and availability.
* Strong understanding of SQL Server features and capabilities, enabling effective utilization of tools and technologies for database development and management.
* Implemented **ETL/ELT** processes using SSIS, **Azure Data Factory** and other tools to handle data integration and transformation.
* Utilized **Azure Service Bus, Azure Logic App, and Azure Functions** for asynchronous messaging, workflow automation, and serverless computing.
* Developed and deployed **Azure Functions** to automate business processes, improving operational efficiency and reducing manual intervention.
* Implemented event-driven architectures using **Azure Functions**, enabling real-time processing and response to system events.
* Developed **RESTful APIs** and Web APIs to enable seamless communication between frontend and backend systems, ensuring security and compliance with **JWT** authentication and authorization.
* Implemented **CI/CD pipelines** using Azure DevOps for automated builds, tests, and deployments, ensuring continuous integration and delivery.
* Managed multi-thread programming and **asynchronous** programming to optimize performance and responsiveness of applications.
* Designed and optimized database schemas, wrote complex SQL queries, and utilized Entity Framework for efficient data access and manipulation.
* Provided production **support** at different levels **(L1, L2, L3),** responding to incidents, diagnosing issues, and ensuring system availability.
* Collaborated closely with clients, gathering requirements, providing technical consultation, and ensuring alignment with project goals.
* Deployed websites on Microsoft **Azure** portal and executed seamless database **migration** processes to ensure uninterrupted service delivery.

***Environment:*** Visual Studio 2022, Angular 14, Typescript 4.0, ASP. Net Core8 (C#.Net), MVC, WEB API/ REST API, LINQ, Entity Framework, JavaScript, SQL Server 2022, DevOps, Azure Data Factory and Azure.

**RoadZen Inc, Burlingame, CA (OFfshore from india) Apr 2016 – Jan 2023**

**Lead Senior Software Engineer (.NET and SQL Server)**

Serving clients such as Reliance, HPCL, BPCL, Bharti AXA, and Petro IT. I have successfully completed numerous web projects spanning Roadside Assistance, Auto Insurance, and Oil and Gas domains. My workload included developing projects from scratch as well as contributing to enhancements for existing projects.

Roadzen is at the forefront of building technology infrastructure that drives the global insurance economy. Our award-winning AI research focuses on telematics, computer vision, language models, and generative AI tailored for insurance in the mobility sector. Roadzen has rapidly grown into a major global auto insurance technology company powered by artificial intelligence (AI).

**My Lead Projects:**

**Project #1: StrandD (**[**https://strandd.in/**](https://strandd.in/)**)**

StrandD serves as an RSA management platform, facilitating the logging, tracking, and management of assistance services while ensuring timely service updates for customers. The platform integrates seamlessly with established assistance networks, meeting the highest standards of service and trust.

The **IoT**-based roadside assistance solution for auto accidents significantly reduced response times, improved accident detection accuracy, and enhanced overall safety for vehicle occupants. By leveraging real-time data and automated communication channels, the system facilitated rapid emergency response coordination and minimized the impact of accidents on victims and surrounding traffic.

Implemented a roadside assistance StrandD project employing **microservice** architecture with distinct modules for services such as user authentication, vehicle tracking, service request management, messaging, and payment processing, **optimizing scalability and maintainability**.

**Project #2: My Assist Application**

Engaged with clients such as HPCL, BPCL, and BHARTI AXA to develop the My Assist merchant application. This separate application allows HPCL dealers to sell My Assist plans at their fuel stations, providing access to roadside assistance features based on subscription.

**Project #3: Reliance Anywhere Assist - RSA**

Developed the RSA application for Reliance policy users, enabling quick access to roadside assistance services. The app simplifies assistance requests and verifies the policy status for Reliance insurer users, granting access to roadside assistance features based on policy renewal status.

**Project #4: Pipe Track IT**

Generated complex oil & gas data representation reports using jQuery and SQL server. These reports include various chart types like Pie chart, Flat chart, Line Chart, Bar Chart, and Pipeline chart, depicting pipeline flow and maintenance details.

**Project #5: xClaim**

xClaim is an automated Smart Claims Management platform designed to streamline motor claim processing. Leveraging computer vision technology, xClaim assesses damage severity and calculates repair costs, reducing claims processing times from weeks to hours. Responsible for backend development and service-side leadership for this project.

***Key achievements:***

* Designed and implemented scalable, secure, and high-performance software and database architectures tailored to project requirements.
* Developed sophisticated web applications using **Angular (versions 14, 16)** and .NET (versions 6, 7), integrated with various databases like **SQL Server,** Oracle, **Cosmos DB**, and PostgreSQL.
* Utilized Azure services and other technologies to meet client project requirements while maintaining and developing .NET applications.
* Proficient in Object-Oriented Programming (**OOP**) concepts and **Dependency Injection (DI)** patterns to ensure efficient and maintainable code architecture.
* Applied various design patterns such as Singleton, Factory, Builder, Observer, Strategy, and **MVC** to achieve flexible and extensible software design.
* Adhered to **SOLID** principles to achieve modular, understandable, and maintainable codebases, resulting in improved code quality and reusability.
* Continuously learned and adopted new **design patterns**, architectural principles, and best practices to enhance software development skills.
* Implemented **ETL/ELT** processes, **REST APIs**, and web services for seamless data integration and communication between systems.
* Provided coding support, bug fixing, and **production support** to ensure application stability and reliability.
* Designed and implemented **CI/CD pipelines** for automated builds, tests, and deployments of web applications.
* Orchestrated **database migration** projects across platforms like SQL Server, Cosmos DB, and PostgreSQL.
* Implemented infrastructure as code (**IaC**) practices using **ARM** (Azure Resource Manager) for configuring cloud resources.
* Deployed web applications on the Microsoft Azure cloud platform using **Azure** App Service, Virtual Machines, and Container Instances.
* Implemented **Azure Functions** and **Azure Service Bus** for the roadside assistance project achieved a highly scalable, event-driven architecture capable of rapid collision detection, automated response coordination, and efficient communication with emergency services and vehicle occupants. This cloud-native solution provided robust reliability, fault tolerance, and real-time responsiveness, enhancing overall safety and effectiveness in handling auto accidents on the road.
* Containerized web applications with Docker and orchestrated deployments using **Kubernetes** for scalability and portability.
* A dedicated support team with expertise in **troubleshooting**, debugging, and **performance optimization**.
* Monitoring tools to track the **health**, **performance**, and errors of your system in real-time.
* Processes and workflows for triaging, **prioritizing**, and resolving issues efficiently.
* **Automation** for tasks like **error log** collection and storage.
* Regular performance reviews and **optimization** efforts to ensure the system operates at peak efficiency.
* Security measures to protect sensitive data, including error logs stored **i**n **blob storage**. in short description
* Proficient in crafting complex **stored procedures** exceeding **1000 lines**, specializing in **performance optimization** and database efficiency enhancement.
* Skilled in proactive maintenance, leveraging **SQL Server Profiler** for database activity monitoring, and experienced in meticulous database design to ensure data integrity and **optimize query** performance.
* Describe your expertise in developing and maintaining **stored procedures** to encapsulate business logic and data manipulation tasks within **Oracle** databases.
* Highlight your proficiency in writing efficient **PL/SQL** code to meet functional requirements and optimize database performance.

***Environment:*** Visual Studio 2022/2019, Angular 14/16, Azure, Typescript 4.0, ASP. Net Core 6/7 (C#.Net), MVC, WEB API, LINQ, Entity Framework, JavaScript, Azure Mobile Web service, jQuery, SQL Server 2022/2019, Oracle, Cosmos DB, and PostgreSQL**,** JSON, XML, Postman, GIT, Azure Blob Storage, Windows Azure, DevOps.

**Avacara Pittsburgh(OFfshore from india) May 2010 – March 2016**

**Senior Software Engineer(.Net/ SQL Server)**

**Domain:** Health

**Product: Yogastart**

At Avacara, I contributed to building Yogastart, an early-stage one-stop-shop platform for discovering and booking alternative healthcare services such as yoga, massage, and nutrition. Our aim was to simplify the process of finding and booking these services for users while providing a platform for providers to connect with new clients, promote their services, and facilitate online sales.

**Product: Sanaview**(https://www.sanaview.com/)

At SanaView, our mission was to empower individuals to lead more successful and fulfilling lives by adopting a transformative lifestyle methodology. Through our platform, we aimed to share fresh discoveries and methodologies that could deeply and profoundly transform individuals, leading to greater levels of joy, success, and fulfillment in all aspects of life.

Our approach focused on providing a comprehensive lifestyle methodology that addressed all areas of life, resulting in an elevated and expanded energy within individuals. This newfound energy facilitated transformation and success with ease, serving as the missing piece that many individuals were searching for to elevate and expand their lives physically, mentally, emotionally, and energetically. Join us on a journey to elevate and expand your life, and discover the transformative power of SanaView.

***Key Achievements:***

* Developed, optimized, and maintained **stored procedures**, **user-defined functions**, and **triggers** to encapsulate business logic, enhance performance, enforce data integrity, and automate tasks efficiently within SQL Server databases.
* Managed the creation and administration of SQL Server databases, overseeing **database creation,** configuration, backup and restore procedures and database migration to ensure robust and scalable database environments.
* Utilized SQL Server Management Studio (SSMS) to create and visualize **database diagrams**, facilitating a better understanding of database structure, relationships, and dependencies for effective database design and development.
* Implemented and managed various types of constraints such as primary keys, foreign keys, unique constraints, check constraints, and default constraints within SQL Server databases to maintain data integrity and enforce business rules.
* Optimized database performance through query tuning, **index optimization**, statistics management, and configuration tuning, utilizing tools like SQL Profiler and Database Engine Tuning Advisor to identify and resolve performance bottlenecks efficiently.
* Contributed to developing web roles with rich UI using ASP.NET, **MVC 5**, HTML 5, CSS, jQuery, JSON, and WEB.
* Involved in coding implementation, software maintenance, testing, and software enhancements.
* Conducted testing of **WEB-API** using the Postman tool and performed End-User testing before deploying applications to production. Provided **24x7 operational support** and implemented data encryption and access control mechanisms. Developed Restful Web API and optimized web application code.
* Managed migration of databases to production Azure SQL Server, debugging code, and increasing **SQL Server stored procedure** performance. Implemented complex business logic within **Oracle** databases and collaborated with developers to tune **SQL queries**.
* Developed and automated database backup scripts and deployed **Web** and **Mobile Applications** to Azure Cloud Production environment.
* Developed desktop applications using WPF (Windows Presentation Foundation) to create visually appealing and user-friendly interfaces.

*Environment:* Visual Studio 2015, Azure, Angular 7, ASP. Net (C#.Net), MVC, WEB API, REST-API, WEB Services, LINQ, Entity Framework, JavaScript, WPF, WCF, Azure Mobile Web service, jQuery, SQL Server 2019, JSON, XML, Postman, GIT, Azure Blob Storage, Send Grid.

**Metasys, Mumbai, India Oct 2007 – Apr 2010**

**Software Engineer( Sql Server / .Net )**

*Key Achievements:*

* Developed a comprehensive three-tier project architecture using ASP.Net and C#, incorporating N-tier architecture and database connectivity.
* Extensive experience in optimizing **SQL Server** performance through query tuning, index optimization, database schema design enhancements, and server configuration adjustments, resulting in significant improvements in query execution time and overall system efficiency.
* Proficient in designing and developing complex **stored procedures** to encapsulate business logic within the database layer, promoting code **reusability, maintainability, and security**. Experience includes **parameterized queries**, dynamic SQL generation, error handling, and transaction management.
* Implemented Web Forms and classes with **C#.NET**, leveraging **ASP.NET 3.5** web form controls and HTML server controls. Utilized Visual Studio .NET 2008 IDE for application design, development, and debugging.
* Employed SQL Queries and **LINQ** for data manipulation, with a focus on database management.
* Enhanced UI functionality using **ASP.NET**, jQuery, HTML, and XML, while styling web forms with CSS files.
* Utilized **ADO.NET** extensively for data retrieval, querying, and storage, implementing Page and Data caching concepts for improved page throughput. Integrated Ajax toolkit, regular expressions, and user search controls for enhanced user experience.
* Integrated Crystal reports into web pages for efficient database access and reporting. Designed and maintained stored procedures, Transact-SQL Queries, user-defined functions, and views in SQL Server 2008.
* Implemented business logic in C#, applying Design Patterns such as Abstract Factory, Facade, & **Singleton patterns**.
* Maintained enterprise reporting with SSRS Reporting Services, modifying reports as per business needs and specifications.

**Environment:** Visual Studio. NET, ASP. Net 3.5, C#, VB.Net ADO. Net, LINQ, XML, SQL Server2008, SSRS, SSIS, IIS6.0, Windows Server 2003, Web Forms, JavaScript, jQuery, Html and CSS.

**Certifications**

Advanced SQL.

Angular Creating and Hosting Full Stack Site.

SQL Server: Reporting Services.

SQL Server Database Performance Monitoring and Tuning

Azure Data Factory