RAJIB MAHATA

Education

B.Tech in Computer Science and Engineering from West Bengal Board of University, Kolkata on year of 2012

Experience Summary

- Over 3 years of experience leveraging cutting-edge technologies, including Azure PaaS services, .NET 8 for backend development, and Blazor applications for modern web interfaces.
- Extensive expertise in .NET technologies, specializing in microservices architecture and client/server web application development.
- Proficient in implementing design patterns such as CQRS (Command and Query Responsibility Segregation), Factory, Adapter, and Singleton, with a strong understanding of SOLID principles.
- Deep knowledge of Object-Oriented Programming concepts, including inheritance, polymorphism, abstraction, and encapsulation, applied effectively in diverse projects.
- Strong experience in SQL development, including query optimization, stored procedures, and triggers, with expertise in using SQL Query Analyzer for performance tuning.
- Skilled in preparing technical design documents, use cases, test cases, and proficient in bug fixing, code reviews, unit testing, and system testing.
- A collaborative team player with proven leadership abilities, committed to delivering high-quality software solutions.

Areas/Applications

- ### Retail
  - Pharmacy Business Transformation
  - Smart Refilling Process
  - Vaccine Distribution Appointment App

- ### Commutation Media Technology
  - Communication Media Technology (CMT) Application
  - Cinematic Lens - Elevate Your Product Stories with Visual Mastery

- ### Media Advertisement
  - Corporate Hour - Empowering Trade, Connecting Businesses

- ### Transportation business
  - TRANSZOOM - Redefining Car Rentals
  - TruckIt365 - Your Ultimate Freight Matching Solution

Skills

Computer System	Programming Languages	Special Software
Windows, Linux	C#, JavaScript, SQL, No SQL, LogicApp template scripting,	SVN, TFS, VSTS, Azure Dev OPS,Git

Technologies/services: Microsoft Azure, Micro Services, .NET 8, BLAZOR, ASP.NET MVC, ASP.NET, Web API, Entity Framework, LINQ, ADO.NET, WCF, XML, HTML, JavaScript, Ajax, JQuery, Visual Studio, IIS, AJAX Toolkit.

Cloud Platform: Microsoft Azure Cloud PaaS.

Server less components: Azure Functions, Azure Logic Apps, Azure Service Bus Queues, Azure Event Grid, Azure Data Factory, AppService.

Implementation of No SQL database - Cosmos DB.

Databases: MS-SQL Server 2005 to 2012, Oracle, MS Access 2007.

Architecture: UML, Object Oriented Design Patterns, SOLID, Design Pattern.

Unit Testing Tool: MSTest, NUnit, Visual Studio Unit Testing Framework

Testing Tools: Selenium, JMeter, Postman, SoapUI.

Career Profile

Since August 2019   Tata Consultancy Services

Title   Digitalization of Meijer Pharmacy
Period   August 2019 to Till Date
Client Name   Meijer Inc.
Position   Assistant Consultant

Responsibilities & Achievements:

Pharmacy Business Transformation (Reduced Vendor Dependency)

- Led the development of open APIs to reduce the pharmacy's reliance on third-party vendors, improving data control and operational efficiency.
- Engineered a comprehensive solution for prescription processing, automated notifications (via voice/SMS), and flexible pickup options.
- Integrated the pharmacy system seamlessly with other internal and external applications, enhancing the overall system performance and interoperability.

Automated Prescription Refill System

- Part of the project to design and implement the Automated Refill System, transitioning from manual processes to automation.
- Managed the secure storage and processing of patient data, ensuring compliance with healthcare regulations.
- Developed a rule engine to analyze dispensed medications, identifying upcoming refills effectively.
- Established an automated reminder system for patients regarding their prescriptions, facilitating confirmations or cancellations.
- Enhanced the user interface for timely notifications and convenient access to pickup and drop-off options.
- Provided training to pharmacy staff on the new system, ensuring effective usage and ongoing support.

Appointment Booking System for Immunization Programs

- Played a pivotal role in designing and developing a configurable appointment booking system, which streamlined immunization scheduling during the pandemic.

- The system allowed healthcare providers to manage appointments more efficiently, improving service accessibility during critical times.

Key Achievements:

- Successfully reduced vendor dependency by implementing open APIs, giving the pharmacy greater control over its processes.
- Enhanced the customer experience in pharmacy operations through automation and better service flexibility.
- Streamlined appointment scheduling for healthcare providers, increasing efficiency and patient satisfaction during the immunization drive.
- Reduced refill processing time by over 30%, allowing pharmacy staff to focus on critical tasks.
- Achieved a 25% rise in patient satisfaction scores, thanks to timely reminders and improved communication.
- Decreased medication errors related to refills by 40%, enhancing patient safety through proactive notifications.
- Eliminated manual phone calls, streamlining pharmacy operations and reducing costs.
- Created a scalable system ready for future growth in patient volume and additional functionalities.

Project summary:

Pharmacy Business Transformation
In a transformative initiative, a pharmacy business aimed to eliminate inefficiencies and high costs caused by its dependency on a third-party vendor for patient data. Our organization designed and implemented a comprehensive solution within 48 weeks, addressing previous challenges and enhancing the pharmacy's operational autonomy.

The project involved deploying a Rule Engine and several Progressive Web Applications (PWAs) on the Azure cloud platform. The Rule Engine was integrated to streamline decision-making, allowing the system to adapt dynamically to changing business rules and requirements. PWAs were developed to provide secure, scalable, and reliable interfaces for users involved in prescription processing.

The deployment on Azure significantly improved security and scalability, addressing the risks associated with the prior vendor-dependent model. Additionally, the pharmacy was empowered with a data dashboard that allowed greater control over its prescription processes, ensuring smoother operations and improved efficiency.

Despite initial delays, the solution was delivered on time, demonstrating agility and effectiveness. The pharmacy gained full control over its data, reducing vendor dependency and bolstering security, scalability, and reliability.

Automated Prescription Refill System for Pharmacy Efficiency
The project streamlined the pharmacy's prescription refill process by automating manual workflows and enhancing efficiency. Previously, the process relied on time-consuming phone calls from IVR and support teams, which struggled to manage high refill volumes. The solution involved designing an automated refill system that securely stored patient data, used a rule engine to track upcoming refills, and sent smart reminders to patients. This allowed for more flexible and convenient refill options, significantly improving both pharmacy operations and customer satisfaction.

Appointment App for Efficient Vaccine Distribution
The Appointment App streamlines vaccine distribution through pharmacies by providing a secure scheduling platform that adheres to government guidelines for prioritizing vaccinations. It enables easy customer registration, integrates time-slot scheduling, and sends automated notifications throughout the process. Additionally, it automatically updates prescription reports to a centralized server after each vaccination. The app has successfully improved the efficiency of vaccination drives, ensuring compliance, enhancing pharmacy operations, and providing a seamless experience for both customers and healthcare providers.

Activities from TCS Side:

- Involvement from design discussions to the final product, providing innovative solutions at every development phase.
- Created a dedicated channel for collecting raw data, including customer information, payment processing, prescriptions, and drug details.
- Extracted valuable information to feed into a custom rule engine for further processing.
- Automated extraction and triggering of the rule engine upon receiving prescriber data in the data lake.
- The rule engine notified customers about prescription status via SMS or voice calls at every processing step.
- Customers received SMS links to access a personalized online experience through a priority checkout UI app.
- Enabled scanning of barcodes and payment at the storefront for a streamlined collection process.
- Integrated MParks for secure payment processing.

Operating System	Windows
Technologies	**Blazor App**, ASP.NET MVC, .net core, .NET 6, Web API, Azure Functions, Azure Logic Apps, Azure Service Bus Queues, and Azure Event Grid
Database	Azure Cosmos DB, Azure storage (Table storage& file share)
Languages	C#, Angular JS, Node JS, JavaScript
Special Software	Azure DevOps, Azure Scrum board, Visual Studio, Azure data explorer, Postman, SoapUI, Open API.
Project Location	Kolkata, India

JUL 2016 - FEB 2019   Accenture

Title	CBT IT OUTSOURCING
Period	JUL 2016 - FEB 2019
Client Name	Cincinnati Bell, Inc.
Position	Software Developer

Responsibilities & Achievements:

- Responsible for the design, development, and implementation of the CMT application, ensuring alignment with user needs.
- Worked on automating various sections of the application to enhance efficiency and reduce manual intervention.
- Developed and maintained an issue resolution ticket system to ensure timely responses and effective resolution of user concerns.
- Captured and meticulously stored processing details to facilitate seamless operations and accurate reporting.
- Focused on creating an intuitive interface that improves the user journey throughout the application.

Key Achievements:

- Reduced manual intervention by 30%, resulting in faster order processing for network equipment setup.
- Improved user satisfaction scores by 25% through an intuitive interface and efficient issue resolution.
- Decreased processing time by 40% with the implementation of automation features, leading to quicker provisioning and order fulfillment.
- Achieved a 95% resolution rate for user-reported issues within 24 hours, significantly enhancing the support experience.

- Ensured data accuracy and integrity through meticulous data management practices, contributing to reliable reporting and analytics.

Project summary:

Overview of Cincinnati Bell and the Communication Media Technology (CMT) Application

Cincinnati Bell is a regional telecommunications service provider based in Cincinnati, Ohio. The company offers a diverse range of services, including landline telephone, fiber-optic Internet, and IPTV. Its primary subsidiaries, Cincinnati Bell Telephone and Hawaiian Telcom, operate as the incumbent local exchange carriers for the Cincinnati and Dayton metropolitan areas, as well as Hawaii. Beyond residential services, Cincinnati Bell also provides enterprise information technology services and long-distance calling through its additional subsidiaries.

In the context of technology and media, Cincinnati Bell has developed the Communication Media Technology (CMT) application. This application facilitates seamless network equipment setup for both individual and business users. It meticulously captures and stores every detail of the processing, from order initiation to provisioning, ensuring a streamlined experience for users.

Activities Carried Out
- Fulfilled business enhancement requirements as Cincinnati Bell Telecommunications (CBT) was growing its business.
- Identified opportunities for process automation within legacy systems to improve operational efficiency.
- Redesigned the old ordering system and order fulfillment processes, integrating network configuration to enable field engineers to set up network devices more easily.

Operating System	Windows
Technologies	ASP.NET MVC, Entity Framework, LINQ, WCF, JavaScript, jQuery, AJAX.
Database	MS-SQL Server 2008 R2
Languages	C#, JavaScript
Special Software	Visual Studio, SoapUI.
Project Location	Hyderabad, India

MARCH 2013 - APRIL 2016   The Keshri Software Solutions

Title	Cinematic Lens - Elevate Your Product Stories with Visual Mastery
Period	JUL 2015 - FEB 2016
Client Name	Company's Own Product
Position	Web Developer

Responsibilities

- Design and develop the web application's front-end and back-end using .net MVC technology.
- Integrate video storage and playback functionalities.
- Implement features for shot cataloging, model portfolio creation, and social media integration.
- Ensure the application's performance, scalability, and security.
- Oversee the entire development process from planning to deployment.
- Manage the project team, allocate tasks, and track progress.
- Ensure the project meets deadlines and budget requirements.
- Coordinate with clients and stakeholders.

Project Summary:

Cinematic Lens is a web application designed to streamline and enhance the process of corporate marketing video production. It offers a comprehensive platform for storing, organizing, and sharing video assets, as well as collaborating with clients and other creators.

Key Features:

- Versatile Video Repository: Centralized storage and organization of corporate marketing videos.
- Detailed Shot Catalog: Detailed information and images for each shot in a video.
- Model Portfolio Creation: Showcase the talent behind the videos through model portfolios.
- Integrated Social Media Network: Connect with other creators, clients, and industry professionals.
- Client Collaboration: Seamlessly share shot details with clients and receive feedback.
- Review System: Clients can post reviews for specific shots, providing valuable feedback.

Cinematic Lens aims to revolutionize the way corporate marketing videos are produced and shared by providing a dynamic and collaborative platform for visual storytelling.

Carried out the following activities:

- Created a system to schedule home deliveries based on the user's PIN code and preferred delivery time.
- Developed a feature to track the status of orders and provide real-time updates to customers.
- Integrated a third-party payment gateway to allow customers to make secure online payments using credit or debit cards.

Operating System	Windows
Technologies	ASP.NET MVC, Entity Framework, LINQ, WCF, JavaScript, jQuery, AJAX.
Database	MS-SQL Server 2012
Languages	C#, JavaScript
Special Software	Visual Studio
Project Location	Kolkata, India

Project - Classified Ads CORPORATE HOUR

Title	Classified Ads CORPORATE HOUR
Period	JUL 2014 - FEB 2015
Client Name	Company's Own Product.
Position	Web Developer

Responsibilities

- Designed and developed an integrated n-tier web application using C#, ASP.NET, MVC, and ADO.NET.
- Involved with the design connection of the application ERD from the beginning.
- Designed user roles and permissions.
- Built and deployed the changes from development to production server.

Project Summary:

Corporate Hour is a leading online classifieds platform in India, connecting buyers and sellers across various categories. Whether you're looking to advertise your products or services, find the perfect deal, or connect with local businesses, Corporate Hour offers a convenient and efficient solution.

Carried out the following activities:

- Involved with the design connection of the application ERD from the beginning.
- Designed user roles and permissions.
- Created classified posts in different categories and services.
- Developed an admin portal for user and ads management.

Operating System	Windows
Technologies	ASP.NET MVC, Entity Framework, LINQ, WEB API, JavaScript, jQuery, AJAX.
Database	MS-SQL Server 2012
Languages	C#, JavaScript
Special Software	Visual Studio, Soap-UI.
Project Location	Kolkata, India

Project - EMPOWERING WEIGHS

Title	EMPOWERING WEIGHS
Period	JUL 2013 - FEB 2014
Client Name	Company's Own Product.
Position	Web Developer

Responsibilities

- Designed and developed an integrated n-tier web application using C#, ASP.NET MVC, and ADO.NET.
- Designed and developed several reusable controls and web forms based on technical designs and requirements specifications.
- Built and deployed changes from development to the production server.
- Designed the BMR (Basal Metabolic Rate) calculation logic to determine individual calorie needs.
- Developed automated daily suggestions personalized based on user criteria.
- The responsibilities highlight your full-stack development skills, covering both front-end and back-end aspects.
- They showcase your proficiency in database design and management using SQL Server.
- The project-specific activities demonstrate your ability to tailor solutions to specific needs, like calculating BMR and generating personalized suggestions

Project summary: Empowering Weighs is a weight loss program that follows a medically approved approach. They emphasize the importance of permanent lifestyle changes for sustainable weight loss. Members receive guidance from healthcare professionals like registered dieticians, behavioral counselors, physical therapists, personal trainers, and registered nurses. The program provides a structured plan or "steps to success" to help members achieve and maintain their weight loss goals.

Carried out the following activities:

- Participated in the design process of the application.
- Created a formula to calculate the user's Basal Metabolic Rate (BMR) over time.
- Implemented a system to provide daily suggestions based on the user's specific criteria.

Operating System	Windows
Technologies	ASP.NET, Entity Framework, LINQ, JavaScript, jQuery, AJAX.
Database	MS-SQL Server 2008
Languages	C#, JavaScript
Special Software	Visual Studio.
Project Location	Kolkata, India

Project - TRANSZOOM

Title	TRANSZOOM
Period	JUL 2014 - FEB 2015
Client Name	Company's Own Product.
Position	Web Developer

Responsibilities

- Designed and developed an integrated n-tier web application using C#, ASP.NET MVC, and ADO.NET.
- Designed and developed several reusable controls and web forms based on technical designs and requirements specifications.
- Built and deployed changes from development to the production server.
- Designed the BMR (Basal Metabolic Rate) calculation logic to determine individual calorie needs.
- Developed automated daily suggestions personalized based on user criteria.
- The responsibilities highlight your full-stack development skills, covering both front-end and back-end aspects.
- They showcase your proficiency in database design and management using SQL Server.
- The project-specific activities demonstrate your ability to tailor solutions to specific needs, like calculating BMR and generating personalized suggestions

Project summary: Welcome to TRANSZOOM.com, your premier destination for hassle-free car rentals and transportation solutions across India. As an innovative aggregator, TRANSZOOM collaborates with diverse car operators, leveraging cutting-edge technology to deliver a seamless, safe, and reliable ride experience for our valued customers.

Carried out the following activities:

- Participated in the design process of the application.
- Created a formula to calculate the user's Basal Metabolic Rate (BMR) over time.
- Implemented a system to provide daily suggestions based on the user's specific criteria.

Operating System	Windows
Technologies	ASP.NET, Entity Framework, LINQ, JavaScript, jQuery, AJAX.
Database	MS-SQL Server 2008
Languages	C#, JavaScript
Special Software	Visual Studio.
Project Location	Kolkata, India

Personal Details

Date of Birth July 22th, 1990

Sex Male

Nationality Indian

Marital Status Married

Number of Children 1

Location Kolkata

Passport Details passport number: Z3598551
Issued at place ondate: 19/05/2016
Valid up todate: 18/05/2026