

## SAMRAT MANDAL

*Innovative software developer having more than 11 years of proven experience in Software Development using Microsoft Technologies (.Net Core, Azure, Microservices, MVC, C#, ASP.Net, VB.Net, Entity-Framework, SQL Server, WCF)*

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### Curriculum Vitae

#### EXPERIENCE SUMMARY

**Total Experience:** 11 Years+

- 11+ years of extensive IT experience in design & development of internet/intranet applications using .Net Core, Azure, Microservices, ASP.NET, MVC, C#.Net, MS SQL, Entity-Framework, WCF, Rest API
- Microsoft Certified Azure Developer
- Worked for various Clients like Genuine Parts Company (GPC), Hudson's Bay Company (HBC), Money Services Inc. (Transamerica).
- Worked on Microsoft Azure in Kubernetes, Docker, Azure Active Directory and Access control, ASB, WebApps, Azure Logic Apps, Azure Function Apps, API Management
- Solid understanding of Object-Oriented programming, Database Design and Query Optimization
- Extensive experience in Presentation Tier development using HTML, CSS, jQuery/JavaScript XML etc.
- Administration of IIS server
- Experience in programming with NuGet packages
- Good knowledge of different .Net Design Patterns like MVC, Data Access Object, and Singleton
- Proven experience in executing the most complex projects in Agile approaches
- Experience in Web Services like Microservice, REST, SOAP, WCF
- Hands on experience in writing PL/SQL queries, Stored Procedures and Triggers
- Experience working with Development IDEs like Microsoft Visual Studio, Visual Studio Code
- Worked on Build Automation and Continuous Integration tools like TFS, Jenkins
- Experience in User Interaction, Business Analysis, Development, Integration, Documentation, Testing, Deployment, Building, Configuration and Production/Customer Support, Maintenance and Enhancements of both Web and Client/Server Technologies
- Excellent experience with Software Development Life Cycle (SDLC) process
- Experience in version control system tools like TFS, SVN, Microsoft Visual Source Safe
- Scheduling and configuring jobs using Hangfire
- Documenting REST API using Swagger
- Experience in Unit Testing using xUnit, Moq
- Expertise in creating Software Requirements Document (SRD), preparing Functional Design Document (FDD), Detailed Technical Design Document (TDD), effort estimation, risk identifying, coding standards, design/code review and test cases documents
- Experience in working with Unit testing
- Proficient in software documentation and technical report writing
- Versatile team player, highly motivated, quick starter, solution-oriented programmer, excellent at solving complex problems under strict deadlines
- Experience in improving the Code Quality using SONAR. Achieved 98% of code compliance in Storefront Rewrite
- Good domain experience in Retail and excellent at Analyzing and Developing MVC Architecture and Design Patterns

#### ACHIEVEMENTS/CERTIFICATIONS

- Microsoft Certified: Azure Developer (AZ-203)
- 2015 WebAward for Outstanding Achievement in Web Development in Transamerica Plan Navigator project
- Awarded "Certificate of Excellence" for providing outstanding contribution to HBC Application Maintenance & Support project.
- Awarded TCS "On the Spot" for providing quality deliverable and commitment in MetLife AEGIS UPGRADE project.
- Awarded TCS "On the Spot" for Best Transformation Project in WNL AWD Migration project.

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### TECHNICAL SKILLS

<b>Technology/Languages</b> <ul style="list-style-type: none"><li>.Net Core</li><li>Microservices</li><li>ASP.NET</li><li>MVC</li><li>C#.Net</li><li>VB.Net</li><li>Entity-Framework</li><li>Rest API</li><li>WCF/Web Service</li><li>Azure</li><li>Lynq</li><li>SQL</li><li>HTML</li><li>JQuery/JavaScript</li><li>CSS</li><li>XML</li><li>Ajax</li><li>Hangfire</li><li>JWT</li><li>Swagger</li></ul> <b>Databases</b> <ul style="list-style-type: none"><li>Microsoft SQL Server</li></ul> <b>Integrated Development/Design Environments</b> <ul style="list-style-type: none"><li>Microsoft Visual Studio</li><li>SQL Management Studio Express</li></ul>	<b>Configuration Management/Source Control</b> <ul style="list-style-type: none"><li>Microsoft Team Foundation Server</li><li>TortoiseSVN</li><li>Microsoft Visual Source Safe</li></ul> <b>CMS Tool</b> <ul style="list-style-type: none"><li>Sitefinity</li><li>DotNetNuke</li></ul> <b>Project Management Methodology</b> <ul style="list-style-type: none"><li>Agile</li></ul> <b>Work/Issue Tracker</b> <ul style="list-style-type: none"><li>JIRA</li><li>Service Now</li><li>Version One</li></ul> <b>Unit Testing</b> <ul style="list-style-type: none"><li>xUnit</li><li>Moq</li></ul>
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### EDUCATION SUMMARY

- MCA (Master of Computer Applications)** - Management Institute of Durgapur (2004-2007)
- BCA (Bachelor of Computer Applications)** - Gitaram Engineering College (2001-2004)

### TRAINING CONDUCTED

Year	Title	Presented to	Location	Organized by
2018	MVC	TCS Associates	Jackson, US	Tata Consultancy Services
2017	.Net	TCS Associates	Jackson, US	Tata Consultancy Services

### TRAINING ATTEND

Year	Title	Location	Organized by
2019	Azure	Atlanta, US	Tata Consultancy Services
2013	Insurance Domain	Kolkata, India	Tata Consultancy Services
2007	Microsoft .Net	Kolkata, India	NiVT (Novel Institute of Vocational Training)
2004	Industrial Training	Kolkata, India	Mindware Technology

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### CAREER PROFILE

Since 2011

#### Tata Consultancy Services

**Position** Senior Software Engineer

**Period** July 2011 to date

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<b>Project</b>	Storefront Rewrite
<b>Client Name</b>	Genuine Parts Company (GPC)
<b>Period</b>	DEC 18 to Till Date
<b>Role</b>	Team Lead/Developer
<b>Description</b>	The underlying business objective of this initiative is to rewrite the existing StoreFront application and provide support, including maintaining the system and several jobs, performing order and return processes, reducing ticket count by automating the system, implementing JWT based authentication with AD group and creating several reports.
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>Understand business requirements, study existing application landscape, and identify redundant/ineffective systems</li><li>Work closely with clients to gain organizational commitment for all systems and software plans, as well as evaluate and guide the selection of technologies required to complete those plans</li><li>Coordinate with onshore/offshore team(s) to identify priorities, distribute the works, and update scope and delivery schedule</li><li>Design and Development of new Microservice Rest API of the system using .Net Core</li><li>Automate the manual process to improve the productivity and systems stability</li><li>Writing jobs to make return process automated</li><li>Implementing SSO and JWT based authentication</li><li>Mentoring other team members on process, technically and in solution practices</li><li>Setup unit testing using xUnit, Moq</li><li>Status reporting and intimation of risk factors to the client</li><li>Provide supports during SIT and UAT with test team and users</li><li>Create data migration/system integration strategies</li><li>Scheduling and configuring jobs using Hangfire</li><li>Documenting REST API using Swagger</li><li>Monitor system performance to detect and resolve problems during deployment and support change management</li><li>Provide support to maintain the system up 24/7</li><li>Migrating the application to Azure</li><li>Migrating the jobs to Azure platform</li></ul>
<b>Skills</b>	.Net Core, Microservices, Azure, REST API, MSSQL, C#, Entity-Framework, Linq, HangFire, Swagger, JWT, SVN, JIRA, xUnit, Moq

<b>Project</b>	HBC Application Maintenance & Support
<b>Client Name</b>	Hudson's Bay Company
<b>Period</b>	JUL 16 to NOV 18
<b>Role</b>	Team Lead/Developer

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<b>Description</b>	The underlying business objective of this initiative is to keep it up the system, including maintaining the system and several jobs, calculating the associates' commission, maintaining rewards programs, reducing ticket count by automating the system etc.
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>Requirement gathering, Analysis Estimation and creation of Project Plan of the maintenance activities</li><li>Coordinate with onshore/offshore team{s} to identify priorities, distribute the works, and update scope and delivery schedule</li><li>Design and Development of new components of the system</li><li>Implement design methodologies and coordination with the team</li><li>Status Reporting and intimation of risk factors to the client</li><li>Document and update the project artifacts and Maintenance Reference Manuals.</li><li>Developing new Web APIs to associates' commission systems</li><li>Automate the manual process to improve the productivity and systems stability</li><li>Implementing Validation</li><li>Provide supports during SIT and UAT with test team and users</li><li>Maintain the developed templates and the project artifacts in Team Foundation Server</li><li>Provide support to maintain the system up 24/7</li></ul>
<b>Skills</b>	MVC, .Net Core, ASP.Net, Microservices, Entity-Framework, MSSQL, C#, Lync, VB.Net, WCF, jQuery/JavaScript, Classic ASP, TFS

<b>Project</b>	SDLTridion Dev & Enhancement
<b>Client Name</b>	Money Services Inc. (Transamerica)
<b>Period</b>	AUG 13 to JUN 16
<b>Role</b>	Developer
<b>Description</b>	The underlying business objective of this initiative is to design, development and enhancement of transamerica brokerage web site using ASP.Net. The site provides information about investment, insurance, retirement and other kind policies related information to user. This website has become the face of company to the users.
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>Requirement gathering, Analysis Estimation and creation of Project Plan of the maintenance activities</li><li>Design and Development of new components of the system</li><li>Preparation of functional and technical design document</li><li>Planning deployment strategy and supporting the deployment</li><li>Implement design methodologies and coordination with the team</li><li>Status Reporting and intimation of risk factors to the client</li><li>Document and update the project artifacts and Maintenance Reference Manuals.</li><li>Implementing Validation</li><li>Maintain the developed templates and the project artifacts in Team Foundation Server</li></ul>
<b>Skills</b>	ASP.Net, C#, SQL Server, WCF, XML, JavaScript/JQuery, CSS, JIRA

<b>Project</b>	WNL AWD Migration project
<b>Client Name</b>	Western National Life Insurance Company
<b>Period</b>	SEP 12 to JUL 13
<b>Role</b>	Developer

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<b>Description</b>	AWD is a Web-based framework that provides a single-entry point to access AWD applications. AWD provides a consistent look and feel across all AWD components and supports custom-developed modules for specific client needs. The specific applications available to a user through AWD are defined by the user's security settings. The application is developed on ASP.Net using MVC architecture. This application is responsible for managing work flow related to policies and claims. It interfaces with two Config-Applications (AWD Config and Request Config) and a reset-service project that is responsible for communicating with database.
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Design and Development of new components of the system</li><li>• Creating high &amp; low level technical designs documents, development, test cases and traceability matrix etc.</li><li>• Implement design methodologies and coordination with the team</li><li>• Analysis of technical Requirements and delivering technical specification documents</li><li>• Analysis of the defect</li><li>• Design of technical specification document of the defect</li><li>• Fix the defect and delivery of the code in the staging environment</li><li>• Review all the documents within the team</li><li>• Creating MVC architecture</li><li>• Develop Views and Writing Code for Model and Controller</li><li>• Creating Dynamic JQuery and controls</li><li>• Implementing Validation</li><li>• Provide supports during SIT and UAT with test team and users</li><li>• Developed and Consumed WCF Services</li></ul>
<b>Skills</b>	MVC, ASP.Net, C#, AWD Framework, JQuery, WCF, XML

<b>Project</b>	MetLife AEGIS UPGRADE
<b>Client Name</b>	Metropolitan Life Insurance Company
<b>Period</b>	OCT 11 to AUG 12
<b>Role</b>	Developer
<b>Description</b>	The underlying business objective of this initiative is technological upgrade of AEGIS application to .NET platform with SQL server reporting services. AEGIS application is used by MetLife for policy issuance and maintenance for its customers. The business process starts with quotation reference received from brokers in coordination with sales consultants for a given region. The quotation is then created in the system along with the employee information. Once the quotation is issued, the broker is notified, and a copy is sent out to the customer. Upon customer agreement, the policy is issued with new business based upon the created quotation. The policy issued to customer is then presented for payment of agreed premium amount. Once the premium is expected from the customer, the policy is activated. AEGIS application receives bank notification of cleared premiums paid by customers. There exists process for making necessary premium adjustments and refund amount calculations as applicable based on the issued policy.
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Understanding Existing Business Logic</li><li>• Requirement gathering</li><li>• Code upgrade from VB 3.0 to VB.Net</li><li>• Developed Stored Procedure</li></ul>

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	<ul style="list-style-type: none"><li>• Writing code to develop Windows Forms</li><li>• Unit Testing/Defect Tracking and working together with the testing team to track and close all defects.</li></ul>
<b>Skills</b>	VB.Net, Entity-Framework, SQL Server

<b>Project</b>	NASM Web site design
<b>Client Name</b>	Ascend Learning, LLC
<b>Period</b>	JUL 11 to SEP 11
<b>Role</b>	Developer
<b>Description</b>	National Academy of Sports and Medicine (NASM) website is the ecommerce solution which provides the different kind of paid trainer for physical exercise and other training and products. The site is being used Sitefinity, a CMS, for admin purpose and other pages which interact with the user and the AspDotNetStorefront is holding the transactional part of the system. The database will scribe with different systems i.e. Microsoft Dynamics CRM, Great Plains, and LMS. The system will use a SSO (Single Sign On) to interact with different existing system i.e. CRM, LMS. The system will also use the CRM WebAPI for sync of data. The data sent to share point is being used for searching the site content. The share point crawler is scheduled to crawl all the content from the NASM site and its database to get the content for the search results.
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Requirements Gathering, Analysis and Designing and documentation of the same</li><li>• Design and Development of new components of the system</li><li>• Entity and Database Design</li><li>• Implementing SSO.</li><li>• Writing code to interact with CRM WebAPI and LMS</li><li>• Unit Testing/Defect Tracking and working together with the testing team to track and close all defects.</li></ul>
<b>Skills</b>	ASP.Net (C#), Sitefinity, SQL Server 2008

2009 - 2011

### Black Keyboard Softwares Pvt. Ltd.

**Position** Senior Dot Net Developer

**Period** June 2009 – May 2011

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<b>Project</b>	Mission Hospital
<b>Client Name</b>	Durgapur Medical Centre Pvt. Ltd.
<b>Period</b>	SEP 10 to MAY 11
<b>Role</b>	Developer
<b>Description</b>	This is the official site of The Mission Hospital, Durgapur. User can book doctor's appointment online as well as they are able to get doctor's report online. Doctor can check their daily appointment schedule on the site
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Requirements Gathering, Analysis and Designing and documentation of the same</li></ul>

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	<ul style="list-style-type: none"><li>• Design and Development of new components of the system</li><li>• Entity and Database Design</li><li>• Writing Stored Procedure</li><li>• Writing code to develop Web Forms</li><li>• Unit Testing/Defect Tracking and working together with the testing team to track and close all defects.</li></ul>
<b>Skills</b>	ASP.Net (C#), SQL Server 2005, JQuery

<b>Project</b>	Bid Buy It
<b>Client Name</b>	M S Enterprises
<b>Period</b>	JAN 10 to AUG 10
<b>Role</b>	Developer
<b>Description</b>	It is a product and service bidding portal, where user can get great deals at a very reasonable cost. Users need to bid on the product they like to have, if they want, they can buy the product directly by paying the product's cost. The site also maintains user profile section.
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Requirements Gathering, Analysis and Designing and documentation of the same</li><li>• Design and Development of new components of the system</li><li>• Entity and Database Design</li><li>• Implementing payment gateway</li><li>• Writing Stored Procedure</li><li>• Writing code to develop Web Forms</li><li>• Unit Testing/Defect Tracking and working together with the testing team to track and close all defects.</li></ul>
<b>Skills</b>	ASP.Net (C#), SQL Server 2005, XML, XSLT

<b>Project</b>	Tour Management System
<b>Client Name</b>	Abhishek Holiday Pvt Ltd
<b>Period</b>	JUN 09 to DEC 09
<b>Role</b>	Developer
<b>Description</b>	This is a desktop application which helps our client to make tour for their customer. With the help of this software, we can select hotel according to city, can make sightseeing. It also calculates the cost of the entire package.
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Requirements Gathering, Analysis and Designing and documentation of the same</li><li>• Design and Development of new components of the system</li><li>• Entity and Database Design</li><li>• Implementing payment gateway</li><li>• Unit Testing/Defect Tracking and working together with the testing team to track and close all defects.</li></ul>
<b>Skills</b>	VB.NET, SQL Server 2005

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2008 - 2009

**Swastik Infosystems****Position** Software Developer**Period** February 2008 – May 2009

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<b>Project</b>	Group Booking
<b>Client Name</b>	Australian Equine and Livestock Events Center
<b>Period</b>	NOV 08 to MAY 09
<b>Role</b>	Developer
<b>Description</b>	The main objective of the project is to sale resource, available Equipments and Extra items attached with the resource on group basis, e.g., the resource 'Birthday Party Bookings' will be booked for 10 to 20 people or 21 to 40 people. Then after selecting a resource for a particular day it will take you payment gateway. After payment process the booking will be finalized. Booking can also be updated.
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Requirements Gathering, Analysis and Designing and documentation of the same</li><li>• Entity and Database Design</li><li>• Design and Development of new components of the system</li><li>• Developed Stored Procedure</li><li>• Implementing payment gateway</li><li>• Unit Testing/Defect Tracking and working together with the testing team to track and close all defects.</li></ul>
<b>Skills</b>	ASP.Net (C#), Dot Net Nuke, SQL Server 2005

<b>Project</b>	Online Tour Booking
<b>Client Name</b>	National Gallery of Australia
<b>Period</b>	FEB 08 to OCT 08
<b>Role</b>	Developer
<b>Description</b>	The main objective of the project is to display all available trains, available seats between locations, their timings and ticket information and after selecting the particular tour on a particular date it will show total cost. If candidate selects the ticket it will take him on a payment gateway server and after payment process, selected Tickets on that date will be booked.
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Requirements Gathering, Analysis and Designing and documentation of the same</li><li>• Entity and Database Design</li><li>• Design and Development of new components of the system</li><li>• Developed Stored Procedure</li><li>• Implementing payment gateway</li><li>• Unit Testing/Defect Tracking and working together with the testing team to track and close all defects.</li></ul>
<b>Skills</b>	ASP.Net (C#), Dot Net Nuke, SQL Server 2005



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### **PERSONAL SKILLS**

- Strong communication and interpersonal skills, able to put views across confidently and assist better team relationships.
- Ability to work in multiple projects simultaneously.
- Willingness to learn
- Ability to work in a team
- Articulate and effective with people of different temperaments.
- Effective in delegating tasks and making sure they are done well.

### **PERSONAL DETAILS**

**Name** : SAMRAT MANDAL  
**Address** : 4631 Shadowood PKWY SE  
Atlanta, GA-30339  
**Visa Status** : H1B  
**Mobile No.** : +1 319-531-8288  
**Email** : samrat.rph@gmail.com