

# Sonam Agrawal

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## EXPERIENCE SUMMARY

- **Around 8 years** of professional experience in **Software Development Life Cycle (SDLC)**.
- Design and development of applications from stage of concept to full implementation, modernized applications to latest technologies and architecture while ensuring business continuity, reliability, and scalability. Consistently delivered business requirements on enterprise system which generate billions of \$ worth of revenue.
- Hands-on experience in multiple business domain and wide range of Microsoft technologies from **MS Azure, IOT - Connected car platform to c#.net, sql, web apis, python and various tools like data bricks, data factory, data explorer etc** for processing data.
- Capable of quickly learning new technologies, Solid programming skills in C# and deep understanding of object-oriented design.
- A keen Analyst and Team Player with thorough understanding of all aspects of the SDLC from understanding functional/non-functional client requirements through direct client interaction, effort estimation, translating them into technical specifications and driving their execution till release.
- Capable of coordinating very well with project team members and guiding junior colleagues and performing code reviews.

## ACHIEVEMENTS

- **University Rank Holder** - 7th Merit from Nagpur University in BCA, CCS (Cognizant Certified Student)
- **Certifications:** Developing and architecting Azure Solutions (AZ-900, 70-532, 70-534, AZ-203)
- **Awards** - Best Consultant in Microsoft and Multiple Distinguished contributor Award in Harbinger

## TECHNICAL SKILLS

Tools	Visual Studio, SVN Ankh SVN, SQL Server Management Studio, Beyond Compare, GIT, Visual Studio Code, Azure Dev Ops
Technologies	C#, ASP.Net MVC, JQuery, Ajax, HTML/CSS/JavaScript, SQL, PL/SQL, MSTest, Bot Framework, Sharepoint, SignalR, Python, Spark, Powershell, Azure CLI Service Fabric, Containers, Web API, .NET core, Microsoft Azure (Multiple components used from web development, IOT, Cognitive services, and Data Services)
Databases	MS SQL Server, Cosmos DB, Azure Data Lake, Azure Storage Account, Azure Data warehouse

## PROJECT EXPERIENCE

### Microsoft India Development Center - Software Engineer

**Unified Notification System And Enterprise Commerce Common Data lake Platform**

**Sep'19 to Present**

#### **Description:**

ECADL is a data platform for publishing data from multiple components to be subscribed by users following proper data governance for Microsoft Volume Licensing Data.

UNS is a Notification system built on top of Azure PaaS components to use enterprise data to send scheduled and real time Volume Licensing notification emails for business data.

#### **Responsibilities:**

ECADL- Common framework for Ingestion/Transformation/Load enterprise data in common storage using python, data factory, data bricks and SQL. Created data governance framework for data access control and framework to automate publisher/subscriber onboarding using data bricks notebook, power apps platform, Entitlement management (AAD offering) and share point site.

UNS-Worked on common framework for Data Ingestion/Transformation/Load/Process notification. Ensured business continuity during feature releases following Azure DevOps practices.

**Tech Stack:** Azure Data factory, Azure Data bricks, Azure Data explorer, Storage Account, Azure Logic App, Azure Function Apps, Azure Data warehouse, Service Bus, SQL, Python, Spark, Powershell and Multiple other azure Services.

### Microsoft Global Delivery - Consultant

**June 16-Aug 19**

#### **1.Blade Manufacturing Tracking System (Customer - Siemens Gamesa Renewable Energy - SGRE)**

**Description:** Digital transformations for blade manufacturing system and Tracking location history of manufacturing tools and products.

**Responsibilities:** Designed and implemented Distributed solution to digitally transform manufacturing system.

1) Data Ingestions/Transformation for blade manufacturing system through IOT hub and pushing that to Data lake to be used for analysis.

2) Data ingestion to perform analytics on location history for tracking devices using Nanolink services in manufacturing unit on schedule basis.

**Tech Stack:** C#, Azure function, Service bus, Windows service, IOT hub, Event hub, Multithreading, Parallel Programming

#### **2. Alert Management System for Egyptian Museum (Customer -Grand Egyptian Museum Aware)**

**Description:** GEM Aware project is a citizen services project delivering an Alert management for Egypt Museum.

**Responsibilities:** Worked on Reliable (queue) services to process alerts from different systems like Building management, Access control systems by integrating all in one application. Provided one page solution for executing commands on devices like bollards, doors, alarms, museum artifacts in case of fire or stolen devices.

Experienced dev lead role for few months. Mentored team members in design and dev, performed code review and helped them to overcome challenges. Promoted generic implementation along with more than 90% code coverage (Test Driven Development).

**Tech Stack:** C#, Service Fabric, Web APIs, Signal R subscription, Multithreading, Parallel Programming, SQL, elastic search

### 3. Connected Vehicle Platform (Customer - Renault Nissan Alliance)

**Description:** RNA is a connected car solution for Renault and Nissan to connect vehicles with cloud and provide remote services using IOT.

**Responsibilities:** Development for services (feature) like Remote Charging, Door Lock, Sync Charge Calendar etc, unit testing, bug fixing, demo to client. Encryption and decryption of data by envelop technique using Key Vault. Mentoring to MACH and shadow resource. Code review.

**Tech Stack:** C#, Connected Car platform, Service Fabric cluster, Azure services like Storage Account, IOT hub, Event Hub, Key vault etc

### 4. Integrated Platform for processing b2b flows (Customer - Nokia)

**Description:** Nokia IPaaS is B2B integration where we automated the business processes using various azure components between Integration Systems to fulfill modern integration platform as a service.

**Responsibilities:** Automated various integration flows by creating ARM template, PowerShell scripts for automation, Written Generic Implementation for API management, and build, release, deployment of all components using Azure DevOps.

**Tech Stack:** C#, Azure logic apps, Azure function, Cosmos DB, Azure SQL Database, API management, Key Vault Powershell, Azure DevOps

### 5. Remote Advisor

**Description:** Remote advisor is a skype for business app solution for desktop and websites to provider remote support to customers by employee using Skype for Business.

**Responsibilities:** Written unit tests using MS Test for application, performed unit testing and bug fixing. Written unit tests cases using jasmine for javascript code and performed unit testing and bug fixing.

**Tech Stack:** Signal R, C#, asp.net MVC, WPF, typescript, javascript, web api

### 4. Project: Ontario Power Generation

**Description:** OPG is a sharepoint migration project where we are migrating 2 sites. One from sharepoint 2007 to Sharepoint online and other is Sharepoint 2003 to Sharepoint 2016.

**Responsibilities:** Performing all the phases of migration like Preparation, Migration, remediation and Incremental. Working on utilities to automate migration, create IP kit to be reused by other migration projects.

**Tech Stack:** C#, metalogix, powershell,

## Harbinger Systems Private Limited – Software Engineer

Dec'12 to Jan'16

### 1.Workterra (EBS CA)

**Description:** WORKTERRA is benefit administration system which covers different phases of employee's employment from Recruitment to termination. This system allows its users to get eligible for different benefit plans through Online Enrollment. It also takes care of Employees health. **Domain** - Human Capital Management (Human Resource, Benefits and Health Care)

**Responsibilities:** Core resource of project from Requirement Analysis to implementation to delivery of project features. Also, worked on stored Procedures implementation, Unit Testing and Bug Fixing. Worked on many features implementation from scratch, used common controls for code re-usability, created custom helpers and used razor view and razor custom tool.Remote validations, wizard creation, lazy load and progress bar for performance issues, SQL job and task schedulers, reflections. Code review of junior developers

**Tech Stack:** C#.Net, MVC4, WCF, SQL Server 2008, JavaScript, JQuery, AJAX (Worked on Tier Based Application with responsive web design), Web API, SVN, Ankh SVN.

### 2. Electronic Assessment System (MindMuzik SA) - Trainee Software Engineer

**Description:** Being single resource to work on this maintenance project, I was responsible for the overall enhancement and support of all the work flow applications. It is a system to assess the psychological or mental status of any human being by collecting answers (quantitative and qualitative data) of simple tests from human being. It is used to administer several psychometric tests.

**Responsibilities:** Enhanced and supported the application single-handed. Delivered project with Agile methodology. Enhancements, code maintenance, Bug Fixing, Unit Level Testing, Build development, Complete ownership of all modules, finished tasks in strict deadlines. Worked on reports, services, timers, work-flow, PDF generation etc.

**Tech Stack:** XAML (Extensible Application Markup Language), C#, SQL SERVER 2008, WPF Framework in MVVM architecture, WCF, Entity Framework.

## EDUCATIONAL QUALIFICATION

- Bachelor of Computer Application – Distinction (RTM Nagpur University, Gondia, Maharashtra)
- Masters in Computer Application – Distinction (University of Pune, Lonavala, Maharashtra)