MANDAAR JANI
SOFTWARE ARCHITECT

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Azure Cloud Services

Azure AD & Protected Web API

Azure Application registration for authentication / authorization using Microsoft O365 account and pulling data using Azure Graph API.

Azure Functions

Azure Functions for execution of functions using CRON job timers / queue based triggers

Azure Platform Services

Send Grid Email, Azure SQL Service, Azure Service Bus, Azure Key Vaults, Blob Storage, O365 SMTP Services

Azure Infrastructure

VM Scale Sets, VNet, Network Security Groups

Azure App Insights

Azure Application Insights for logging errors / exception handling and monitoring insights.

Skills

Architecture Design

Knowledge of design patterns and best practices. Presales involvement and hands on design and development of Architecture.

Microservices

ASP.Net Core based Web API using Microservices , CQRS / DDD / Event Sourcing patterns

Product Lifecycle Management

Summary

- 17 years of experience in Software services and product development.
- Ideation and Conceptualization of high level requirements for the targeted product.
- Architecture Design & Development of Solution using Microservices in .Net Core
- Development using Microsoft Azure Stack, JIRA / Bit Bucket Stack & it's implementations around Continuous Integration & Delivery methods using the knowledge of YAML & PowerShell scripts.
- Design & Development of Cloud Native solutions using Azure Service Bus / RabbitMQ, APIM / Ocelot gateway, Application Insights for logging telemetry data all along using Docker containers during development lifecycle.
- Design & Deployment using Docker / Azure Kubernetes Services (AKS) involving full Azure Stack using CI / CD pipelines.
- Deployment from Azure DevOps repositories to AWS using deployment groups in CI / CD pipelines.
- SaaS based multi-tenant Enterprise Content Management flagship product in Asp.Net MVC & development of ancillary products using web services as part of different projects respectively for a span of 10 years.
- Participation in requirements discovery, design orientation for UX / Business Analysts and team members
- Coordination and client calls with CTO of the client accounts
- Consultation and coordination for project forecasting, resource loading, detailed estimates for the project.
- Involved in high level decision making on Project Estimation Timelines and delivery techniques / presentations and Client related engagements with Sr. Vice Presidents / Delivery Heads
- Conducting Interviews, Trainings & Appraisals at Organization level

Product Management Tools

Microsoft Azure DevOps Stack - Agile

- Task creation into Backlog, Decision making and Sprint planning
- Story point execution and distribution of hours
- Assignment of tasks for self and the team
- Branching, Execution, Unit test writing using xUnit, Code Review using pull requests in Azure Dev ops and merging using Azure Devops
- CI / CD build and release pipelines monitoring with Code Coverage reports using Cobertura reporting tools

JIRA Stack - Agile

- Agile execution using all the following Scrum boards and ceremonies
- Sprint Grooming & decision making
- Sprint Planning & Sizing meetings
- Story point execution and distribution of hours
  Cherry picking JIRA Sprint items
- Branching, Execution, Unit test case writing, Code Review using Bitbucket pull requests & Merging using GIT Bash shell
- Continuous Integration & Delivery (CI / CD) using Jenkins
- Daily Stand up meetings and Daily Status Reports
- Maintaining Service pack & Feature branches with their respective builds

Pre-Sales Work

Aug-2020 - Aug-2020	Marketplace Solution
	Cybage Software Pvt. Ltd.

- **Tech Stack** - React JS - ASP.Net Core v3.1 - EF Core - SQL Server
- Marketplace solution for talent acquisition platform
- Microservices based Architecture Solution including document management (resumes), workflow and payment gateway interaction (3rd Party)

Knowledge on both Azure Devops stack and JIRA stack of product lifecycle management including build & release lifecycles and GIT branching strategies.

Microsoft Technologies

ASP.Net MVC , ASP.Net Core, SQL Server, WCF , WPF, Javascript, jQuery. Expertise in both windows & web development with complete CI / CD knowledge.

Front End Technologies

Angular , React JS, Javascript, jQuery. Good knowledge around ECMA script standardization

Devops

Knowledge on Docker / Kubernetes and complete CI / CD build and release pipelines in Azure and AWS

Business domains

Worked on ITSM , Supply Chain, Survey Management, Enterprise Content Management, Healthcare and Travel and Hospitality domain areas.

Computational Algorithms

Worked on an OCR mechanism using third party service to scan and read documents and design a template structure to automatically classify documents.

Apr-2020 - Apr-2020

AWS Migration
Cybage Software Pvt. Ltd.

- **Tech Stack** - Migration using Rackspace & AWS, DNS mapping & WordPress Plugins
- Research on requirements related to migration activities of Web Applications from Rackspace to AWS
- Research on requirements related to migration activities of WordPress Blog from Rackspace to AWS

Nov-2019 - Nov-2019

Customer Portal
Cybage Software Pvt. Ltd.

- **Tech Stack** - React JS - ASP.Net Core v3.1 - EF Core - SQL Server
- Web and Mobile friendly Customer Portal as a Central access for multiple tenants i.e. IT cloud solution providers
- Integration of several ticket management systems like Connect Wise & others
- Microservices based Architecture solution including end to end CI / CD pipelines involving Docker / Kubernetes over Azure
- Extensible services to be designed at later stages to integrate different ticketing systems

Technical Work experience

Sep - 2020 - Dec - 2020

Sr. Technical Architect
Cybage Software Pvt. Ltd.

Sakon - Ordering and Inventory Management

- **Tech Stack** - React JS - ASP.Net Core v3.1 - EF Core - SQL Server / Mongo DB
- Heterogenous DB modelling approach proposed
- Scope of the project was limited to Architectural Services only.
- Ideation and Conceptualization for new Sakon Platform - ITSM - IT Service Management
- Research on Architecture design for ITSM software and best practices to be followed.
- Classification of dynamic field lists for service attributes & organizing in a structured format.
- Proposal drafts for New Architecture
- Proof of Concepts for new DB design with Heterogenous model of SQL Server and Mongo DB along with ASP.Net Core Web API
- Requirements related discussion on daily basis
- Conclusive findings based on larger picture and more exploration of requirements
- Architecture Design and Data Modelling with flow diagram

Jul - 2020 - Dec - 2020

Sr. Technical Architect
Cybage Software Pvt. Ltd.

Puma (Gaia) Platform - Order procurement & RFQ management

- **Tech Stack** - React JS - ASP.Net Core v3.1 - EF Core - SQL Server
- Study of legacy application
- Ideation process on identifying and reorganizing data boundary contexts
- Architecture Documentation proposal draft for Microservices Architecture
- Implementation of Architecture Design & Development using ASP.Net Core Microservices - Cloud ready solution
- Implementation of Design and development of API Gateways using Ocelot for routing and authentication
- Implementation of Key Patterns, Practices and Technologies like CQRS using Mediator for Microservices design & development.
- Implementation of Event Sourcing using outbox pattern for supporting the scalability of CQRS pattern
- Implementation of Generic Repository pattern was used along with Entity Framework Core 3.0 for all CRUD operations.
- Deployment using Docker / Kubernetes via GitLab CI / CD on private cloud.
- Devops / Deployment strategy
- Training the team on project conventions, adhering to standards requested by client & Git branching strategies.

Jan-2020 - Aug-2020	### Sr. Technical Architect Cybage Software Pvt. Ltd. **Marco Customer Portal** - **Tech Stack** - React JS - ASP.Net Core v3.1 - EF Core - SQL Server - Worked with Presales team on the same project for Architectural draft proposal - Requirements Discovery phase - Architectural Design & Development of Web Application Solution structuring for developers & DevOps Git Branching strategy - Implementation of Key Patterns, Practices and Technologies like CQRS using Mediator for Microservices design, development and deployment to AKS services. - Implementation of Event Sourcing using outbox pattern for supporting the scalability of CQRS pattern - For data persistence layers, Common Repository pattern was used along with Entity Framework Core 3.0 for all CRUD operations. - Primary requirement for the start was to suffice Tenants and User Management for local custom users and Microsoft Azure Active Directory users for external tenants using Sign-In with Microsoft. - Principal Authentication was carried out using OAuth 2.0 for Accounts in any Organizational Azure Active Directory using Microsoft Sign-In & authorization was implemented using JWT Bearer tokens. - Docker Containerization and Azure Kubernetes formation for CI / CD using Azure Build and Release Pipelines
May-2019 - Jan-2020	### Sr. Technical Architect Cybage Software Pvt. Ltd. **MRI-SIMMONS – Survey Management Platform** - **Tech Stack** - Angular - ASP.Net Core v2.2 - EF Core - SQL Server - Requirements Discovery phase - Architecture Design & Development of Web API using ASP.Net Core v2.2 - Authentication & Authorization using ADFS on premise Active Directory - Provider (IDP) login page giving an SSO behavior & authorization Implemented using JWT Bearer tokens. - Database design and development of Data Persistence Layers - Design and implementation of Generic Repository Pattern based on templates, collections & generics - Implementation of CI / CD using YAML & PowerShell scripts - Deployment from Azure Dev Ops to AWS virtual machine using deployment groups
Jan-2019 - Apr-2019	### Sr. Systems Analyst Cybage Software Pvt. Ltd. **Metalogix - Quest Software - Executive Dashboards** - **Tech Stack** - Server less model - Blob Storage - Azure Functions - Data Factory - Azure SQL - Power BI - Requirements discovery phase - Design and Development of Architecture based server less model to convert App Insights Application logs into Power BI Dashboards for Executive team. - The idea was to convert all XML logs located in Azure Blob Storage to CSV; where in the size of data was 25 XML log files per minute comprising of last 7 years data. - Worked on Azure Functions for both CRON timer as well as Queue based triggers to convert XML to CSV and throw this into Resultant Azure Blob Storage from where it will be taken into Azure Data Factory - Pipelines to filter and move the data from Azure Data Factory to Azure SQL - Power BI team was able to consume the data from Azure SQL - Ownership was limited to Azure Functions and the entire data processing.
Jun-2009 - Jan-2020	### Technical Architect Cybage Software Pvt. Ltd. **FileBound – Workflow, Business Process Automation & Document Management Solution**

- **Tech Stack** - ASP.Net MVC / Angular - WCF / ASP.Net Web API / ASP.Net Framework 4.5 (object model) - ADO.Net - SQL Server
- **Tech Stack** - Ancillary products - Windows / WPF Apps - WCF - ASP.Net Framework (object model) - SQL Server - Deployment using Install Shield
- Multi-tenant architectural design for improvisation of Software as a Service (SaaS) deployment using a Service Oriented Architecture (SOA)
- Architecture design and development of ASP.Net Web Applications involving ASP.Net MVC, WCF, WPF and smart client based custom auto-upgradable windows viewers for ECM solutions.
- Several ancillary products like FileBound Capture, Integration Kit, Enterprise Service, Integration Platform and FileBound Connect were developed over the period of 10 years
- Design & Implementation of proprietary Template based File and Document indexing & page and print breaking algorithms using ABBYY OCR (Optical Character Recognition) SDK
- Integration of Scanning modules using Twain components & scalability to integrate amongst several scanners.
- Design & Development of Business Process Automation (Enterprise scale windows services) & Workflow for flagship ECM products
- Knowledge of full ECM lifecycle and tools / technologies involved as drafted by https://www.aiim.org/
- Study and innovation on all ECM aspects prescribed & controlled by AIIM.org for capturing, classification of documents, filing in an organized manner.
- Day-to-day work involved working on Agile methodology to work on enhancements and bug fixes, Sprint planning and release management
- Work on Ancillary products and conceptualize latest trends and technologies
- Work with presales team for other projects simultaneously
- https://uplandsoftware.com/filebound/

Oct-2007 - Jun-2009

Sr. Software Engineer
Cybage Software Pvt. Ltd.

Avista – Real Estate & Hospitality Business Networking Platform

- **Tech Stack** - ASP.Net 2.0 - ASMX Web Services - ADO.Net - SQL Server
- Research & development and ideation modular programming using DotNetNuke (DNN) web development platform
- Solution structuring for developers
- Requirements discovery and documentation phase
- Branding and white labeling Accounting Management System
- Setting up of DNN framework for given requirements and cherry picking of required modules to build the architecture and platform for developers
- Design of Business networking platform and real estate property floating algorithms
- Development and Unit testing, deployment to local environments. Conventional Software Development Lifecycle.

YAS – Your Accounting System - Software As a Service based flagship product

- **Tech Stack** - ASP.Net 2.0 - ASMX Web Services - ADO.Net - SQL Server.
- Requirements discovery and documentation phase
- Coding Implementation for Backoffice User registration cycle
- Database modelling and multi-tenant automation at the time of user registration
- Research & Development of Exchange Server Setup and understanding Active Directory
- Coding Implementation to consume Exchange Server ASMX service to dynamically create users of a tenant and setup their master databases.

Feb-2007 - Oct-2007

Team Lead
iSummation Technologies Pvt. Ltd.

Team leadership & Individual Contributor role

- **Tech Stack** - ASP.Net 2.0 - ADO.Net - SQL Server
- Requirements discovery phase
- Standardization of tools and technologies pertaining to ASP.Net 2.0 Webforms development
- Individual Contribution and single handedly completed an entire listing project.

Aug-2004 -

Sr. Software Engineer

Feb-2007	**Astegic Infosoft Pvt. Ltd.**
	EpicMD by Astegic – Healthcare and Insurance billing management platform

- **Tech Stack** - ASP.Net 2.0 - ASMX Web Services - ADO.Net - SQL Server
- Custom web application development using ASP.Net 2.0
- Requirements discovery and documentation phase
- Research and study around HIPAA (Health Insurance Portability and Accountability Act), HL 7 and X12 standards
- Coding implementation for requirements assigned
- Conventional Software Development Lifecycle.
- Key responsibilities were around development as per coding guidelines

OCWIP by Astegic – Owner Controller Wrap Up Insurance Program - MWAA

- **Tech Stack** - ASP.Net 1.1 - ADO.Net - SQL Server
- Requirements discovery and documentation phase
- Web Application Development using C#
- Research and study around OCWIP fundamentals and MWAA work methods
- Coding implementation for requirements assigned
- Conventional Software Development Lifecycle.
- Key responsibilities were around development as per coding guidelines

Apr-2004 - Aug-2004	**Software Engineer**
	Intellicon Pvt. Ltd.

- Worked on Pocket PC programming to create an installation setup of application and synchronization using embedded VC++

Education

Sep 2001 - Mar 2004	**Master of Computer Applications**
	Shree Swami Narayan College of Computer Science (SSCCS)
Sep 1997 - Apr 2000	**Advanced Diploma in Network Centered Computing**
	NIIT - National Institute of Information Technology
May 1997 - Apr 2000	**Bachelor of Science (Industrial Chemistry)**
	Sir P.P Institute of Science