MANDAAR JANI

SOFTWARE ARCHITECT

⚲ Ahmedabad, Gujarat. India

✆ 9898276990

✉ mandaar.jani@gmail.com

in linkedin.com/in/mandaarjani/

Skills

Architecture Design

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

Design Patterns & Practices

- Architecture design patterns like CQRS, Repository, Factory pattern, Façade pattern
- Expertise in CQRS using mediator packages & Autofac modules
- Proficiency in Patterns of Enterprise Application Architecture
- Expertise in Representational State Transfer (REST) Application Programing Interface (API)
- Software as a Service (SaaS)
- Service Oriented Architecture (SOA)
- SOLID & DRY principles
- Dependency Injection (DI) and Inversion of Control (IOC)

Key Technologies

- Docker Containers
- Azure Service Bus
- Azure Container Registry
- Docker Host
- Orchestrators
- Polly
- Linux / Windows Containers
- RabbitMQ
- Docker Hub
- Azure Container Service
- Kubernetes
- MiniKube

Key Patterns

- Microservices
- Asynchronous Communication
- Advanced Command Query Responsibility Segregation (CQRS)
- Domain Driven Design
- Circuit Breakers
- Autonomous System
- API Management Gateway Routing
- Backend for Front End (BFF)
- Mediator

Summary

- 16+ years of experience in Software services and product development.
- Architecture Design and development using best practices in API development & Integration using Asp.Net Core Microservices
- Ideation and Conceptualization around high level requirements for the targeted product.
- 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.
- 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) along with cloud formation consisting of API Management Gateways (APIM) & Azure Service Bus
- Development using Microsoft Azure Stack, JIRA / Bit Bucket Stack & it's implementations around Continuous Integration & Delivery methods using the knowledge of YAML & PowerShell scripts
- Deployment in complete Azure Stack using CI / CD pipelines & Docker / Kubernetes
- Deployment from Azure DevOps repositories to AWS using deployment groups
- Participation in requirements discovery, design orientation for UX / Business Analysts and team members
- Coordination and client calls with CTO of the client accounts, participation and played a role of advisory for project forecasting, resource loading, estimating timelines 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

Work experience

Jul 2020 - Current

Sr. Technical Architect
Cybage Software Pvt. Ltd.

Puma (Gaia) Platform - Order procurement & RFQ management

- Study of existing legacy application
- Ideation and Conceptualization
- Proposal drafts for New Architecture
- Architecture Design & Development using ASP.Net Core Microservices - Cloud ready solution
- Designing API Gateways using Ocelot
- 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.
- Training the team on Microservices
- Drafting Conventions and Architecture documentation
- Devops / Deployment strategy

Feb 2020 - Aug 2020

Sr. Technical Architect
Cybage Software Pvt. Ltd.

Marco Customer Portal

- Working with Presales team for architecture design and documentation
- Requirements Discovery phase
- Architectural Design & Development of Web Application Solution structuring for

- Resiliency
- Event Bus System
- Domain Events & Integration Events

Programming Languages

- Expertise in C#
- Expertise in VB.Net & C# - mixed coding style while maintaining legacy applications
- Proficiency in Entity Framework Core, Dapper and LINQ
- Expertise in SQL & Core Database level activities

Development Technologies

- Net Core Web API & Swagger implementation
- Net Core MVC using Razor pages
- REST API Integration using Http Client wrappers, building custom connectors
- Front end technologies like jQuery, Angular, React JS, Vue JS, Web Assembly
- Windows Communication Foundation (WCF)
- Windows Presentation Foundation (WPF)
- Windows Forms Applications & Enterprise Scale Windows Services

Development Tools

- Microsoft Visual Studio 2019
- Microsoft Visual Studio Code
- Install Shield Professional
- Microsoft Azure Dev Ops stack
- GIT version control system mostly using Git Bash shell
- JIRA / Bitbucket / Jenkins / Confluence stack
- Microsoft SQL Server 2017 / 2019
- Database Transactional Resiliency using Entity Framework Core
- Proficiency in Merge replication techniques

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.

Product Lifecycle Management

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

Cloud DevOps

- Cloud formation of API Management Gateway, Application Insights, Docker containers / Azure Kubernetes (AKS) cluster deployment

---

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

Aug 2019 - Jan 2020

Sr. Technical Architect

Cybage Software Pvt. Ltd.

MRI-SIMMONS – Survey Management Platform

- Requirements Discovery phase
- Design & Development of Web Application Solution structure for developers
- Principal authentication was carried out using on premise Active Directory Identity
- 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

Jun 2009 - Jan 2019

Technical Architect

Cybage Software Pvt. Ltd.

FileBound – Workflow, Business Process Automation & Document Management Solution

- Research & development and ideation on latest web client and server technologies like Angular, React JS & Asp.Net Core Web API Microservices respectively.
- 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.
- 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

Oct 2007 - Jun 2009

Sr. Software Engineer

Cybage Software Pvt. Ltd.

Avista – Real Estate & Hospitality Business Networking Platform

- Research & development and ideation modular programming using DotNetNuke

- Microsoft Azure Cloud deployment to Azure VM
- Microsoft Azure Repos to AWS EC2 deployment using deployment groups
- Microsoft Azure build and release pipelines

Front End Technologies

- React JS, Angular, Vue JS, jQuery, Asynchronous Module Definition (AMD) style JavaScript coding style, Material UI, Bootstrap, jQuery UI

Business Verticals

- IT Service Management & API Integration Solutions including Microsoft Customer Service Partner portal integration
- Enterprise Content Management
- Business Process Automation
- Workflow Automation
- Digitization of Document Management & Storage
- Data Capture and File Indexing
- Archive & Records Management
- Social Media Integration
- Survey Management Platforms for Market Research
- Travel & Hospitality
- Insurance
- Health Care & MedTech
- Accounting BackOffice Operations

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.

(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.

Feb 2007 - Oct 2007	**Team Lead**
	iSummation Technologies Pvt. Ltd.

Team leadership & Individual Contributor role

- 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 - Feb 2007	**Sr. Software Engineer**
	Astegic Infosoft Pvt. Ltd.

EpicMD by Astegic – Healthcare and Insurance billing management platform

- 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
- Implementation and coding for requirements assigned
- Conventional Software Development Lifecycle.
- Key responsibilities were around development and implementation as per decided coding styles and 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++

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

Education

Sep 2001 -	Master of Computer Applications

Mar 2004	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

Designation Timeline

01-Apr-2019 - Present	Sr. Technical Architect Cybage Software Pvt. Ltd.
01-Apr-2017 - 01-Apr-2019	Technical Architect Cybage Software Pvt. Ltd.
01-Apr-2011 - 01-Apr-2017	Sr. Systems Analyst Cybage Software Pvt. Ltd.
01-Apr-2009 - 01-Apr-2011	Systems Analyst Cybage Software Pvt. Ltd.
29-Oct-2007 - 01-Ap-2009	Sr. Software Engineer Cybage Software Pvt. Ltd.
01-Feb-2007 - 20-Oct-2007	Team Lead iSummation Technologies Pvt. Ltd
01-Aug-2006 - 01-Feb-2007	Sr. Software Engineer Astegic Infosoft Pvt. Ltd.
01-Aug-2004 - 01-Aug-2006	Software Engineer Astegic Infosoft Pvt. Ltd.
01-Apr-2004 - 01-Aug-2004	Software Engineer Intellicon Pvt. Ltd.