Nagendra Kumar Kolisetty

Cloud Architect/Application Architect/Lead/Principal Engineer

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Professional Summary

Cloud Architect /Lead/Principal Engineer with around 19+ years of software design and development experience including developing mission critical, enterprise wide, and multi-tier, multi-threaded application software. Mentoring development teams on driving innovations, continuous service improvements, design, development, deployment, and delivery. Recognized for successful delivery of software applications, building eco-systems of IT partners, driving joint initiatives on multiple dimensions of IT lifecycle with service providers. Exceeded expectations in delivering the applications and will go extra mile to achieve excellence.

Areas of expertise:

- **Certified**- Azure Fundamentals (AZ-900)
- **Certified**- Microsoft Certified Professional Developer – Enterprise Applications (MCPDEA)
- **Certified**- Mule Certified Developer (Mule 4)
- Experience in cloud technologies and crafting solutions that use Azure services such as AKS, Azure Service Bus (ASB), Cosmos DB, Azure Active Directory, Azure Cache for Redis, Azure Cloud Services, Azure Databricks, Azure Blob Storage
- Application design, architecting and providing solutions
- Software design and development of applications using .Net and .Net based open-source frameworks
- Designing and developing data models and ingesting the data using data pipelines to Snowflake
- Drive the architectural decision-making process and orchestrate design and code reviews
- Middleware Integration, design and development using Integration Frameworks (Mulesoft ESB).
- Design using Service Oriented Architecture.
- Design using Micro services Architecture (Event driven, Resiliency).
- Design using Event Driven Architecture Framework (CQRS)
- Design and implemented token-based authentication using OAuth 2.0
- Experienced in implementing the OAuth policies using Azure Active Directory, Identity Server
- Design systems with distributed Message Streaming using ASB, IBM MQ
- Design and development of SOAP and REST APIs.
- Design using Advanced Design Patterns (like Saga, Domain Driven Design) and distributed architectures.
- Developing mission critical, enterprise wide, multi-tier application software.
- Domains – Insurance, Real Estate, Pharma, Energy & Utilities and Retail.
- Leading design and development teams from onsite and offshore.

Education:

- Master of Computer Applications from Bangalore University, India in 2003
- Bachelor of Science in Computers from SV University, Tirupathi, India in 2000

Technology & Skills

Programming Language	ASP.NET, MVC, Web API 2.0, C#.Net, SQL, T-SQL, PL/SQL, Java
Architecture & Design Patterns	Domain Driven Design (DDD), Event Driven Design, Event Sourcing, CQRS
Skillset	.Net Core 2.0 and above, C#.Net, SOAP, REST APIs, Rules Engine, XML, XSL, XSD, JSON, WSDL, Angular
**SOA	Microservices**	SOAP, MQ, ESB, REST, Microservices, WS- Security, API Management, API Gateway
Databases	SQL Server 2018, IBM DB2 10.0/11.0, Cosmos DB, Snowflake
XML Related Technologies	XML, XSL, XSLT, XPath, SOAP, WSDL
Operating Systems	Windows 10, Windows Server 2012
Development Tools	VisualStudio.NET 2019/2022, SQL Profiler, Anypoint Studio 7.10.0, Anypoint Platform
BRMS/Rule Engine	IBM ODM 8.x
Design Tools	MS Visio, Rational Rose, IBM ODM Rule Designer, Eclipse, Decision Center
Versioning Tools	Visual SourceSafe (VSS), Tortoise SVN, TFS, GIT

Other Tools	SSIS, SSAS, Microsoft Visio, Splunk, Dynatrace, Veracode, Power BI
Test Driven development	XUnit, MUnit
API Gateway Tools| ESB | MQ	MuleSoft 4.x, IBM IIB 9.x, Apache, Layer 7 (XML Gateway), IBM API Connect
IaaS | PaaS | SaaS | CI / CD	Azure, MuleSoft Cloudhub, Runtime Fabric, Azure DevOps, Maven
Web/App Servers | Containers	IIS 6.0/7.0/8.0, MuleSoft Runtime Fabric 1.154, Docker, Kubernetes
API Security	OAuth 2.0, JWT, OpenID Connect, PKCS, TLS
Cloud Technologies	Azure Service Bus (ASB), Cosmos DB, Azure Active Directory, Azure Cache for Redis, Azure Cloud Services, Azure Databricks, Azure Blob Storage

Professional Experience

GEICO   **Mar' 2020 – Present**

Cloud Architect/Application Architect/Lead/Principal Engineer

Projects:
Data Quality Portal (DMS), Data Quality API (DMS), Generic Event Processors (UWS), ADAS(UWS), Generic Framework(UWS), Gen API Gateway(UWS)
- Work with Architecture team to enhance the applications.
- Engage with stakeholders to get requirements, technical and architectural design, assign and work on the tasks to complete the deliverables. Assist with the production support activities deployments.
- Focused on the design and implementation of APIs in MuleSoft, project integration and deployments on-prem in the cloudhub.
- Implemented Design patterns including Message Routing, Content Enrichment, Message Filtering, Message Transformation, Guaranteed delivery, Retry Mechanisms.
- Involved in designing and developing .NET modules for Geico.com using ASP.NET, C#.Net, .NET Framework 5 & 6, Azure DevOps, API, SQL Server.
- Lead .NET developer for the Data Management Services team. Worked on ASP.NET, C#.Net, .NET Framework 5 & 6, Azure DevOps, Microservices, Azure Service Bus, API, SQL Server, Cosmos DB, LINQ, Scrum.
- Implemented integration patterns including File, Message, SOA, ESB, ETL, Microservices and API Security
- Message sequencing, Batch message processing, error handling and reconciliation, mechanisms.
- Designed and developed MuleSoft coding templates to speed up development by 30%
- Set up API security and integrate with IDP, SAML 2.0 or OpenID and OAuth
- Worked on diversified integrations with SaaS Solutions inc. Salesforce, Service Now and implemented CI / CD Pipelines
- Design and developer Solution accelerators leveraging Mulesoft & Anypoint platform.
- Participate in solution workshops.
- Design & developer complex Integration solutions using Mule 4.
- Work with customers to create and influence proper standards for development.
- Contributed subject matter expertise to effort estimation and SOW development.
- Participate in the continuous improvement of MuleSoft & cloud integration products by leading internal work groups and design sessions within Professional Services and across the firm.
- Develop POCs and contribute to POVs.
- Assist development teams on flow design, data weave and performance tuning.
- Work on Proposals involving API Discovery and methodology.
- Perform architecture assessment to evaluate the API maturity.
- Work with customers to create and influence proper standards for development, governance, and operational lifecycle.
- Mentor and train the internal team on design and architecture best practices.
- Mentor teams on best practices on Mulesoft 4.X & .Net Technologies.

Environment: MuleSoft Runtime 4.3.0, Azure, MuleSoft Cloudhub, Kubernetes, MuleSoft Runtime Fabric (RTF), Anypoint Studio 7.8, Anypoint Platform, SOAP, XML, WSDL, Dataweave, REST, JSON, Java, Azure Service Bus (ASB), SQL Server 2018, ASP.Net Web API, C#.Net, .NET CORE 3.1, Cosmos DB, Splunk, Dynatrace, Veracode, SonarQube, Azure Blob Storage, Snowflake, Azure Databricks

Application Architect/.Net Tech Lead

Projects:

Everlink Portal, Everlink API, Everlink Core

- Evaluated SOA and Microservices approach and choose Microservices for this application
- Designed and exposed nuget package with extension methods for entity framework classes, strings, dates, encryption/decryption etc.,
- Designed and exposed nuget package with Web API filters, attributes for api call logging, exception handling, response types.
- Involved in designing and developing .NET modules using ASP.NET, C#.Net, .NETCore, Azure DevOps, API, SQL Server.
- .NET Tech Lead for the Onshore and Onsite team. Worked on ASP.NET, C#.Net, NETCore, Azure DevOps, API, SQL Server, LINQ, Scrum.
- Designed the application architecture to use ASP.Net Web API, Identity Server for token-based authentication.
- Understanding of the evolving integration technologies including API management, IBM Integration Bus (IIB/ESB).
- Participated in Configuring API management platforms such as Layer 7 (XML Gateway) and IBM API Connect.
- To make microservice development easier and rapid - Created visual studio project templates those are preconfigured for Web API project, Domain implementation and Infrastructure (repositories)
- Used Automapper to map domain objects to persistence objects and vice versa
- Implemented CI/CD Pipeline builds, and actively involved in the entire Pipeline setups and configurations.

Environment: ASP.Net Web API, C#.Net, .NET Core 2.1, Azure DevOps, IBM ODM Cloud Rule Designer, Eclipse, Decision Center, Visual Studio 2017, GIT, Automapper, IIB/ESB, Layer 7 (XML Gateway), IBM API Connect, Nuget Server, SimpleInjector, Microsoft Identity Server, Nuget, NPM, Bower, JSON, Bootstrap, TDD with Xunit, Entity Framework, SQL, Web API2.0, JQUERY, SQL Server.

Application Architect/.Net Tech Lead/Lead Developer

Projects:

CIS NG (Customer Information System Next Generation), Field Operations System (FOS), DEP – Time Log System, FIT – Field Installations Tracking System, Automated Payments, DEP Customer Portal, My DEP- Permit System Integration, DEP Intranet Applications, BAPPSNET, MITS – MTU Inventory Tracking System

Worked on multiple projects in DEP for different projects with wide variety of technical stack and various approaches.

- Evaluated SOA and Microservices approach and choose Microservices for this application
- Designed and exposed nuget package with core domain classes like Entity, Value Object, Domain Event, domain specific entities and value objects like account number, premise, BBL etc.,
- Designed the application architecture to use ASP.Net Web API, Domain Driven Design, OAuth 2.0 for token-based authentication and DB2 V10.0 Native stored procedures (when required for special functionality very specific to DB2)
- Used factory design pattern to build/create complex hierarchy entities/aggregates
- Developed extension methods for entity framework to achieve multi tenancy as each transaction should execute under specific user's RACF credentials
- Broke down database entities into multiple contexts based on their subdomain functionality
- To make microservice development easier and rapid - Created visual studio project templates those are preconfigured for Web API project, Domain implementation and Infrastructure (repositories)
- Developed custom attributes to make bridge between ambiguous legacy codes to domain specific descriptions
- Developed extension methods to map domain descriptions to legacy code and vice versa
- Developed the application using Angular 2 framework and created different controls, views, and model services.
- Worked on POC project involving with Web UI Framework including Angular 2, TypeScript, Less, and Web Pack and used it successfully in BCIS system for enabling the Single Page application.

Environment: ASP.Net Web API, C#.Net, .NET CORE 2.1, .NET Framework 4.6, IBM DB2 Entity Framework 6.0, IBM DB2 V10.0, IBM Data Studio 4.0, Visual Studio 2015, TFS 2013, Windows Server 2008, Automapper, Nuget Server, SimpleInjector, OWIN, ASP.NET MVC, Angular 2, TypeScript, WebPack, Node.JS, Nuget, NPM, Bower, Bootstrap, TDD with Xunit, JSON, Zone.js, Entity Framework for DB2, IIS 7.5, SQL, Web API2.0, JQUERY, SQL Server 2016,DB2.

Accenture India., Bangalore (India)   Sep 2007 – Oct 2008

Senior Lead Developer

Projects:

ACE – Alliance for Clinical Excellence

Wyeth is a global leader in pharmaceuticals, consumer health care products, and animal health care products. With research and development (R&D) programs focused on small molecules, vaccines, and biotechnology.

Environment: ASP.Net, C#.Net, .Net Framework 2.0, Visual Studio 2005, C#.NET, SQL Server 2005, Rave 5.6

LTIMindtree MindTree Ltd., Bangalore (India)   Aug 2005 - Sep 2007

Senior Developer

Projects:

DTC Sight holder Extranet

Diamond Trading Company (DTC) is part of the De Beers Group formed in 1888 and has a fine diamond heritage. DTC is an application designed to make the purchase of gems easier. Under Supplier of Choice, DTC has allocated marketing resource and investment to clients on the back of the Efficient Initiative (EI) process.

Crest-International

Cendant is a $19 billion company with five divisions. The five divisions are Real Estate Services Business Unit, Hospitality Services Business Unit, Vehicle Services Business Unit, Marketing Services Business Unit, and Travel Distribution Services Business Units

Environment: C#.NET2.0/1.1, ASP.NET2.0/1.1, VS .NET, SQL Server 2005/2000, JavaScript, Visual Source Safe, Source off Site, Web Services, WSDL, Microsoft Visio 2002, Mondo Search 5.3, XML, AJAX, SOAP, Ned Stats, Windows XP, Test Director

perotsystems Perot Systems, Bangalore (India)   Mar 2004 to Aug 2005

Software Engineer

Projects:

EDGE-Policy1

The objective of this project is to add new enhancements and migrate the existing various legacy system Application to .NET platform to improve the performance, security and to reduce the maintenance cost.

EDGE-OD1

Cendant is a one of the foremost providers of travel and real estate services in the world, hotel franchisers, vacation ownership organization, and one of the world's largest car rental operators.

Environment: C#.NET 1.1, ASP.NET1.1, VS .NET2003, SQL Server 2000, JavaScript, Web Services, WSDL, XML, SOAP, Visual Source Safe, NANT, Microsoft Visio 2002, Crystal Reports 11, Windows XP