**Madhu Kumar**

**Lead Technical Architect**

**847-232-7281**

**PROFESSIONAL SUMMARY**

Results-driven Lead Technical Architect with 15+ years of experience designing, developing, and delivering enterprise web applications, microservices, and cloud-native solutions. Proven expertise in Azure, AWS, and .NET technologies with strong finance and healthcare domain knowledge. Skilled in Microsoft Dynamics 365 integration, PySpark-based ETL workflows, and event-driven architectures. Adept at leading distributed teams, implementing secure authentication (Azure Entra ID, ADB2C, OAuth 2.0), and optimizing large-scale systems for performance, scalability, and security.

**CORE SKILLS**

• Cloud Platforms: Azure (App Services, Functions, Entra ID, ADB2C, Service Bus, DevOps), AWS (EC2, S3, ECS, RDS, Lambda, DynamoDB, CloudFront)

• Programming & Frameworks: .NET 8, .NET Core, ASP.NET MVC, C#, VB.NET, React, Angular, JavaScript, Python, PySpark, GoLang

• Databases: SQL Server, Azure SQL, Cosmos DB, MySQL, PostgreSQL, MongoDB

• Integration & APIs: Microsoft Dynamics 365, Dataverse, Graph API, REST APIs, WCF Services

• Messaging & Streaming: RabbitMQ, Apache Kafka, MSMQ, Azure Service Bus

• DevOps & Monitoring: Azure DevOps, New Relic, Kibana, Grafana, Dynatrace, Power BI, SSIS, SSRS

• Architecture & Methodologies: Microservices, Event-Driven Architecture, CI/CD pipelines, Agile/SCRUM, AOP

**CERTIFICATIONS**

• Microsoft Certified Solutions Associate: Cloud Platform (ID: 15763285)

**PROFESSIONAL EXPERIENCE**

**Lead Technical Architect**

**Point of Care Network (POCN), NJ | Apr 2024 – Present**

• Designed and implemented a .NET 8 MVC Web Application integrated with Azure Entra ID and Azure ADB2C for secure authentication with role-based access.

• Developed and integrated Microsoft Dynamics 365 with real-time data synchronization into Syncfusion DataGrid for enhanced UI responsiveness.

• Built PySpark ETL workflows integrating Apache Spark with Kusto for large-scale, high-performance data processing.

• Created custom .NET services for CRUD operations on Dataverse and automated workflows using Power Automate.

• Optimized API performance with token caching and asynchronous calls, reducing response time by 40%.

• Developed custom dashboards using Sigma Reporting and Syncfusion Dashboard Layout for real-time application monitoring.

• Implemented security compliance via OAuth 2.0 and RBAC for API access.

• Monitored SQL performance in Databricks SQL, improving query efficiency.

**NET Technical Lead Developer**

**Momentum Financial Services Group (MFSG), PA | Aug 2019 – Mar 2024**

• Led an offshore-onsite development team for sprint planning, code reviews, and delivery.

• Designed and implemented microservices architecture with RESTful APIs for scalability and fault tolerance.

• Developed Angular (v13+) and React web applications with state management using NgRx and Context API.

• Built WCF services, Web APIs, and integrated Go applications with SQL & NoSQL databases.

• Automated loan servicing workflows and developed ETL processes with Azure Data Factory.

• Monitored performance using Dynatrace and created custom dashboards.

**Senior .NET Developer**

**Billabong International Limited, CA | May 2015 – Aug 2019**

• Developed e-commerce platforms for multiple global regions.

• Integrated shipping label APIs and optimized order fulfillment workflows.

• Implemented MVC 5 modules, localization APIs, and SQL-based reporting (SSRS).

• Managed production deployments and IIS configurations for performance tuning.

**Senior .NET Developer**

**DSS Research, USA | Jun 2013 – May 2015**

• Built survey reporting portals using ASP.NET MVC, SSRS, and SSIS.

• Migrated legacy applications from Classic ASP to ASP.NET MVC.

• Developed highly interactive UIs using HTML, CSS, and jQuery.

**Earlier Roles:**

• Senior .NET Developer – MDB Medical Services Limited (UK) | 2012 – 2013

• .NET Developer – Government Sector (USA) | 2011 – 2012

• .NET Developer – DSS Research (USA) | 2010 – 2011

**EDUCATION**

• Master of Computer Applications – Osmania University, India (2007)

• Bachelor of Computer Applications – Osmania University, India (2002)