# Srinivasa Mahendrakar

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## Profile Summary

I am a versatile and experienced Azure Solutions architect with a proven track record of developing target solution architecture for enterprise application integration solutions, data Integration solutions, enterprise web applications, and RESTful APIs with emphasis on reuse, scalability, and reliability. I have a strong understanding of **Azure Technologies**, industry standards, frameworks and best practices with the backing of **rich hands-on experience**.

I am an author of the book [“Serverless integration design patterns with Azure.](https://www.packtpub.com/virtualization-and-cloud/serverless-integration-design-patterns-azure)” I have written several technical articles [(blogs1,](https://blogs.biztalk360.com/author/srini/) [blogs2)](https://www.atomicscope.com/blog/author/srini/) which show my subject matter expertise. I am an active member of the technical communities which helps me to keep myself up to date with the latest trends and best practices. I am also a speaker at forums such as [Integration User Group](http://www.integrationusergroup.com/speaker/srinivasa-mahendrakar/) and [Global Integration Bootcamp.](https://integrationbootcamp.com/)

In my **14+ years of experience,** working in industries including Energy and Utilities, finance, retail, and healthcare, I delivered renowned solutions with multi-vendor, multi geographical teams while following agile methodologies and DevOps techniques.

My Technical skills are:

* Experience in architecting solutions based on industry standards using **Azure IaaS, PaaS and SaaS capabilities**
* Hands-on experience with Azure solutions involving **Azure AD** features such as claims-based authentication(**SAML and OAuth**), MutliFactor Authentication(**MFA**), Role-Based Access Contol(**RBAC**) and Just in time Access to Virtual Machines.
* I have hands-on experience with Enterprise Application Integration and B2B solutions using **.Net Web APIs, Azure Functions, LogicApps, APIM, Service Bus, Event Grid, Event Hubs, Durable Functions , BizTalk Server etc**,
* I have hands-on experience in design, and development of ETL and ELT solutions using services such as **Event Hubs, Data Factory and SQL Server Integration Services (SSIS).**
* I have experience in building modern web applications using technologies such as **.Net core, Web APIs, Redis cache, Azure App Services, Azure SQL Service, and Cosmos DB**.
* Have designed and implemented hundreds of **RESTful APIs with Level 2 and Level 3** maturity levels for several microservices.
* Experienced in building **CI and CD pipelines** with an **expert level understanding of ARM templates**.
* Hands-on experience working with a wide range of development frameworks and tools such as Dapper, Entity Framework, Azure Resource Management templates, Powershell scripting,  Swashbuckle for Swagger, Postman test scripts, SOAP UI, etc.
* I have a strong understanding and experience of working with industry standards such as XML, JSON, SWIFT, FIX, EDIFACT, X12, AS2, HL7, FHIR.
* The integration solutions that I have built involved ERP and CRM systems such as Dynamics AX, DynamicCRM, SAP and various third-party systems.

My key strengths are :

* I have a strong **stakeholder management** experience with an ability to drive discussions for confirming and clarifying requirements. I have complementing communication skill at both **business** and technical levels.
* Have experience of **working with Offshore teams** and taking end to end ownership of the tasks and delivery.
* I can facilitate reuse and compliance of standards across all product and portfolios. Experience in ensuring relevant **technical strategies, policies, standards, and practices** are applied correctly.

### Certifications

* AZ-301: Microsoft Architect Design
* Microsoft Certified Azure Application developer
* MCTS BizTalk Server 2010
* MCTS SQL Server 2008 Application Development
* Certified Scrum Master

### Awards

* Most Reused Framework award for Standard Message Delivery framework from Wipro Technologies
* COE and Innovation award for Best reusable pipeline components designed and developed by me
* Outstanding achiever award from Wipro Technologies.

### Projects

Following are some of the project that I have worked on.

**Halfords Universal Business Information Layer(HUBIL)**

**Client:** Halfords through Adaptivity

**When:** May 2019 to Till date

**Role:** Azure Consultant **(Contract)**

Halfords has chosen to re-platform the website from WebSphere commerce server to **salesforce** cloud commerce. As part of this program, the HUBIL Project has been set up to deliver a sophisticated Information consumption layer that will provide simple ways to integrate internal systems to external partners, provide consistent & accurate data in real-time through a variety of channels and to provide a systems landscape accessed through APIs, making it easier to change, replace, renew and deprecate.

As an Azure integration consultant, I implemented APIs for different microservices to integrate applications such as V12 Retail Finance, SalesForce, SAP ERP, Booking Bug, Planning Inc, etc. We used **Azure Service Bus**, **Azure Functions,** and **Azure Logic Apps** as core technologies for building available, reliable and scalable APIs. We used **Azure APIM** for securing and managing APIs. For data feed interfaces we used **Azure Data Factory**. I helped the team to streamline Build and Release pipelines using Azure DevOps templates.

* The APIs were distributed and are implemented using **.Net Core**.
* Automapper was used to map between the different entities.
* All APIs were secured **using Azure APIM and Azure AD(Oauth 2.0).**
* We used **Azure Function’s built-in dependency injection** to enable **TDD**.
* **CI/CD** pipelines are implemented in **Azure DevOps**.
* My role was **70% development and 30% dealing with stakeholders** such as Business Analysts, Technical Architects, Testing team, Third-party SMEs and rest of the development team members.
* We were an agile team with biweekly sprints. End of every sprint we did a demo of features developed to stakeholders.

**Atomic Scope (**<https://www.atomicscope.com/>**)**

**Client:** Kovai Ltd (<https://www.kovai.co/>)

**When:** March 2017 to March 2019

**Role:** Azure Architect (**Contract**)

Kovai is a B2B SaaS-based products company with more than 800 enterprise customers around the world. It has more than 60 employees who are specialized in Azure technologies. Being a focussed and a small-sized organization, it was a **fast phased environment** to work where deliveries went into production every week.

I was an architect for the Product called Atomic Scope which is a functional end to end monitoring platform for Azure Integration Services. I was instrumental in ideation of the product. Single-handedly built an **MVP** and then took it to the level of a commercial product capable of generating revenue within a few months.

The role was very demanding, I was doing hands-on development for 70% fo the time and 30% involved managing stakeholders such as Director of company, potential customer side architects, new customer architects, and testing teams.

* With a deep understanding of Azure services, I was involved in making technology and framework choices. I was a **go-to person for solving technical challenges**.
* I lead a team of 5 developers with varied skill sets. We used **.Net Core for all our Web APIs** and **MongoDB** as a back end.
* All the APIs were restful with a maturity level of 2 with **swagger definitions**.
* We used various Azure Technologies such as **Azure App Services, Azure Functions, Event Hubs**, **Azure Service Bus Queues, Azure Application Insights, Azure workloads,Azure APIM etc.**
* Gained strong experience in **Azure Active Directory, Service priciples, RBAC and OAuth.**
* We practiced Agile development methodology with weekly sprints and **Azure DevOps** for the CI/CD pipelines.
* We worked on the **Azure Data Factory** to integrate Atomic Scope with data integration solutions.

**BizTalk360 (**<https://www.biztalk360.com/>**)**

**Client:** Kovai Ltd (<https://www.kovai.co/>)

**When:** July 2016 to Feb 2017

**Role:** Technical Lead (**Contract**)

Kovai is a B2B SaaS-based products company with more than 800 enterprise customers around the world. It has more than 60 employees who are specialized in Azure technologies. Being a focussed and a small-sized organization, it was a **fast phased environment** to work where deliveries went into production every week.

I was a **Technical Lead** the Product called BizTalk360 which is an operational, monitoring and analytics platform Microsoft Integration services. When I joined the company as a contractor, the product was already very well established with more than 500 customers across the world. I was tasked to bring Azure related features into the product.

The role was very demanding, I was doing hands-on development for 70% fo the time and 30% involved managing stakeholders such as Directory of company, customers and testing team.

* I brought in features related to Azure Service Bus, Logic Apps, Integration Accounts, Web APIs etc.
* I lead a team of 4 developers with varied skill sets. We used the **.Net framework for all our Web APIs** and **SQL Server** as a back end.
* We published the product to Azure Market Place(<https://azuremarketplace.microsoft.com/en-us/marketplace/apps/biztalk360.biztalk360-in-azure>).
* We practiced Agile development methodology with weekly sprints .
* We worked on the **SSIS** initiallyand then **Azure data factory** to integrate BizTalk360 with data integration solutions.

#### ViaPath Integration Engine

**Client:** Viapath UK

**When:** Mar 2014 to July 2016

**Role:** Lead Developer (**Contract**)

ViaPath is a joint venture between GSTT and Serco to provide pathology services to a significant portion of the UK hospitals and GPs. As part of the modernizing business, they wanted to build a strategic integration engine to communicate between Laboratory Information Systems (LIMS), Request and Reporting systems in NHS trusts and GP ordering systems.

* I designed a rule engine based service bus solution. Developed majority of the custom pipeline components, **SOAP-based** **WCF services**, Orchestrations, Custom .Net components as part of the delivery.
* I was involved in establishing development best practices in a team of three.

• I was involved in designing and development of a message replay portal using the **MVC framework**

and Telerik Kendo Grid components.

* Made use of BizTalk server features such as Business Rule Engine, Custom Pipeline components, longrunning orchestrations, and MLLP ports with ordered delivery, Complex maps with custom XSLT, HL7 and XML messaging formats.
* Developed a custom master data management solution and hosted it as an **Azure Web App**.
* I developed **SSIS packages** for importing Master data from excel sources into **SQL databases**.
* I was involved in provisioning development, QA and Production VMs in Azure and deploy a multi-server BizTalk environment in **Azure IaaS**.
* We did PoCs to make use of **Logic Apps** for exposing **FHIR** based interfaces to external healthcare providers.

#### Army Recruitment Partnering Project

**Client:** Ministry Of Defence

**When:** June 2013 to March 2014

**Role:** Lead Developer (**Contract**)

Army Recruitment Partnering Project’s main goal was to build a recruitment and training platform for Army, Royal Navy, and RAF. It’s a large program with multi-million investment. I was a lead developer and was responsible for delivering integration solutions and interfaces based on Services Oriented Architecture(SOA) principles. A service bus was implemented and was split into two segments comprising of BizTalk Server 2010 and AppFabric which will be made up of **Windows Communication Foundation (WCF**) and **Windows Workflow Foundation (WF**). BizTalk Server 2010 is was responsible for coarse-grained business services, while AppFabric is responsible for fine-grained business services.

* I designed and developed **SOAP-based WCF web services** which were claims-aware using **WS-Trust security** tokens. All WCF services were hosted in **Microsoft AppFabric**. **AppFabric in-memory cache** was also used to maximize the scalability and minimize the latency.
* Implemented numerous BizTalk interfaces, developed custom **.Net pipeline components** and orchestrations.
* Utilized BAM APIs, used tracking profile editor for some orchestrations and endpoints. **Used BAM WCF interceptor** components to track messages in WCF services.
* I was involved in developing some features of an **MVC web application** where I have used .Net frameworks such as **Entity Framework**, **LINQ**, **Unity** and **NMock**
* Subversion was used as a code repository and **Jenkins** was used to creating CI/CD pipelines with automated test cases execution.
* The messaging to the external systems involved **PGP encryption** and **X509 certificates**.
* A custom token service was implemented to issue **SAML tokens**.
* We implemented auditing, application logging, process logging, error reporting, and exception reporting frameworks.

#### Core Map solution

**Client: Insight**

**When:** Jul 2012 to Jun 2013

**Role:** Solution Architect (**Contract**)

Insight is a software and hardware reseller ranked number one globally. It was using Microsoft Dynamic AX for its supply chain and customer relationship processes. From previous rollouts of AX solution, they were already making use of BizTalk server 2009 as a middleware. The BizTalk solution implemented was not in good shape as onboarding new customers and suppliers involved a lot of development effort and were time-consuming. I was brought in to look into the existing solution and propose a better solution for new EMEA region rollouts.

I initially validated Microsoft ESB tool kit to implement a service bus solution to enhance the speed with which new customers and suppliers are on-boarded. However, because of a few shortcomings of ESB to work with EDI and AS2 messaging, we decided to implement a custom service bus solution using Business Rules Engine, Custom Pipeline components and reusable orchestrations.

* We built numerous WCF based web services and exposed to internal systems as well as to trading partners.
* I was responsible for the detailed design of the CoreMap solution.
* I was responsible for building ETL packages for some batch processing interfaces using SSIS.
* I lead a development team of 5 consultants.
* I designed a .net based web portal to define custom itineraries. The speed at which customers and suppliers were on-boarded significantly improved due to the configurable nature of the solution and high level of reusability.
* The AS2(Applicability Statement 2) based messages were secured using X.500 certificates. The files received from the SFTP locations were encrypted using SHA1, MD5, Pgp algorithms.

#### Global SAP Integration (Shell Treasury and Payment Systems)

**Client:** Shell Information Technology International, London

**When:** Jun 2008 to Jul 2010

**Role:** BizTalk Development Lead

Shell was implementing a Global SAP which replaced a number of legacy ERP and payment systems across the geography. Multiple payment applications related to shell treasury and supply chain management systems were integrated to GSAP using BizTalk server 2006 R2.

* I was responsible for requirement analysis, design, and development of various BizTalk interfaces which include schemas, complex maps using inline XSLT and orchestrations.
* Have used Swift accelerator for interfaces involving payment systems.
* I exposed a number of web services as part of the integration solution.
* Flagship development was the implementation of **SMD (Standard message Delivery)** Framework which is BizTalk based solution to integrate trading partners to GSAP system using EDIFACT and X12 messaging protocols.

#### Payments and brokerage interfaces

**Client**: UBS Bank (Via Wipro)

**When:** Nov 2005 to May 2008

**Role:** Integration Developer

UBS was using BizTalk server 2006 R2 to integrate its web services, payment systems, and various other applications and services. I have worked on multiple small projects which involved the design and development of the number of BizTalk interfaces. I have listed a few of them below.

* UBS had BizTalk implementation for integrating its corporate payment transactions with SWIFT network using BizTalk swift accelerator. Have used MQ Series, FTP and SFTP transport for some FIN transactions (Ex: MT 101, MT 103, MT 210 etc)

* Broker Data Collector was an effort to integrate the loan broker’s web services and UBS’s legacy systems. Brokers place customer registration information through exposed web services into SharePoint library in MISMO XML format. BizTalk will poll XML messages and send it to downstream systems after translating them to custom XML formats.