MAYUR MACWAN

Microsoft BizTalk Server
Developer and Architect

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*IT Professional with 10+ years of experience in Enterprise Integration Technologies
using Microsoft BizTalk Server and Azure LogicApps*

SUMMARY

- Successfully implemented Enterprise Integration Solutions using BizTalk Server (Orchestrations, Itineraries, Pipelines, Maps, Schemas, Adapters, ESB Toolkit, SQL Server, MSMQ, BAM)
- Hands-on experience with new cloud technologies (**Azure and LogicApps**)
- Firsthand experience building a **mobility product** from scratch using mobile technologies and **API Integrations** across disbursed systems
- Extensive experience with Multiple Systems Integration and Business Process Automation (**Claims Processing, CRM, ERP, LMS, SQL, ecommerce, Manufacturing, GDS**)
- Successfully developed and implemented **SOA** and **EAI** architectures
- Helped build and manage vertical teams (as team lead) in onsite-offshore settings to execute end-to-end BizTalk development for long term projects
- Successfully migrated previous versions of BizTalk applications and Legacy applications to newer versions of BizTalk Server
- Project Management Experience with Scrum methodology
- Broad knowledge of **IT project management**, team dynamics and IT-development processes.
- Experience with **international team collaboration**, design and delivery

BIZTALK SKILLS

- BizTalk Server 2013, 2010, 2009, 2006, 2006 R2, Azure LogicApps
- Visual Studio 2013, 2010, 2008, 2005 along with Team Foundation Server
- .Net 4.0 and .NET 3.5
- SQL Server 2014, SQL Server 2008 R2, SQL Server 2005
- Adapters: SB-Messaging, WCF-WebHTTP, JDEdwards LOB, FILE, HTTP/S, WCF–Custom, WCF-SQL, SQL, MSMQ, S/FTP, Scheduler
- BizTalk Artifacts: ESB Itineraries, BizTalk Orchestrations, Maps, Custom Pipelines, Most Functoids
- Itinerary Components: Onramp, Off-ramps, Forwarding Off-ramps, Mimicking Off-Ramps (static send ports in Itinerary), Broker Services
- Business Systems Integrated: Allegro Horizon ETRM System, HealthEdge HealthRule Claims Management System, HP Exstream**,** JD Edwards Enterprise One ERP, Camstar Manufacturing Management System, LIMS Manufacturing System, SABA Learning Management System, Sales Force CRM, iCom – Ecommerce Platform, Cyber Source Credit Card Transactions, Global Distribution Systems, Hotel Reservation Systems, Hotel Inventory Management Systems, Car Rental / Distribution Systems
- Resolvers: UDDI and BRE

- Exception Management: ESB Portal, Custom Framework using Orchestration and ports for Exception Handling
- Experience in working with various environments from development, testing, validation and production

EDUCATION

July 2009 - May 2012   **New Jersey Institute of Technology, NJ**
- BS in Management Information Systems with minor in Project Management. Coursework included information systems, systems design, advanced programming, business process mgmt., advanced project management, organizational behavior and entrepreneurship.

Jan 2006 - April 2009   **Hudson County Community College, NJ**
- Associate of Science in Computer Science. Coursework included basic programming, relational databases, multiple computer science courses and operating systems.

WORK EXPERIENCE

May 2018 – Till date **Client: Christie's, London.**
- **Project: Auction House**
- **Role:** BizTalk Lead Consultant
- **Platform:** BizTalk Server 2013R2, BRE, ESB Toolkit 2.1, SQL Server 2012, Windows Server 2012, TFS, VS 2013
- Christie's is world's leading Auction House Headquartered in London and New York City with showrooms across the world.
- I am involved in their Integration Team as a BizTalk Team Lead to support and manage Integration Teams.
- Integration Team which is spread across India, London and New York builds and supports multiple interfaces in Christie's using Microsoft BizTalk and Mulesoft Platforms.
- Integration Environment includes over 100 interfaces connecting various Business Systems like JDEdwards ERP, Siebel CRM, Workday HRMS, AD and many custom applications.

June 2017 – April 2018**Client: Smartest Energy Ltd, London.**
- **Project: Energy Trading and Risk Management**
- **Role:** BizTalk Lead
- **Platform:** BizTalk Server 2013, BRE, ESB Toolkit 2.1, SQL Server 2014, Windows Server 2012, TFS, VS 2013
- Smartest Energy Ltd (SEL) is a leading purchaser of independent generation and supplier of renewable electricity in UK.
- ETRM project is undertaken to integrate newly developed Demand Forecast System, CTRM Software and many third-party data systems.
- I was involved in interface design documents for various interfaces, high level architecture design and development of new modules for interfaces.
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Feb 2015 – May 2017 **Crawded Technologies Pvt. Ltd., Gujarat**

- **Role:** Founding team member. Chief Technology Officer.
- **Platform:** Azure Logic Apps, BizTalk Server 2013, BRE, ESB Toolkit 2.1, Entity Framework, MVC 5.0, SQL Server 2014, Windows Server 2012, IIS 7, TFS, VS 2013, MongoDB, Signal R
- Crawded is an Ed-tech startup focused on connecting school students with other similar students to help them get instant help from peers and third party sources.
- We built a backend with over 250 APIs that talked to other APIs in real-time to fetch data from multiple sources
- Initially, Azure BizTalk services were used to build the backend transaction services that were eventually moved to part onsite part azure cloud with its LogicApp module.
- API Integrations were at the core of the product as while user use App's search or ask question functionality, LogicApp along with MongoDB provided results that were retrieved in run time from several sources and aggregated with its proprietary ranking system for future use.
- LogicApps and BizTalk services were connected thru a layer of MVC that were packaged and were exposed to other service providers as Academic Search Engine.

Jan 2014 - Feb 2015   **LiquidHub India Pvt. Ltd., Mumbai**

- **Client:** AmeriHealth Administrators, PA
- **Role:** BizTalk developer and offshore team lead
- **Platform:** BizTalk Server 2010/2013, BRE, BAM, ESB Toolkit 2.1, .Net framework 3.5/4.0, SQL Server 2008 R2, Windows Server 2008/R2, IIS 7, TFS, VS 2010
- Client is a third-party administrator (TPA), whose business is processing health care claims and servicing their clients. They have a legacy infrastructure consisting mixture of technologies from mainframe to java-based websites and custom applications which were used from last 30 years. Most of the transactions are EDI HIPAA compliant. The project involved building a robust and flexible EDI HIPAA transaction processing platform using Microsoft BizTalk server and slowly migrate clients to this new system and eventually retire legacy systems. In future, this platform will be utilized for processing all types of transactions.
- Part of the offshore leads for one of the many business verticals within the project.
- Lead the team of 4 developers and directly coordinated all the development tasks with onsite lead.
- Successfully migrated many of the existing processes and services and created multiple interfaces to connect with other internal systems.
- Responsible to develop some of the most reusable components across all other applications.
- ESB Toolkit was used to accelerate the development efforts by creating itineraries and making them reusable across applications and to build a service bus
- Used Business Rule Engine (BRE) and UDDI to dynamically resolve many configurable values and endpoints to take advantage of BizTalk's lightweight reusable components
- I worked with two different business vertical heads to migrate existing workflows. This included leading discussions with business heads to understand requirements, co-authoring technical documents and designing new architecture using BizTalk and delivering functional applications.
- **HealthEdge's** Health Rules System was used and integrated for various inbound and outbound workflows like Benefit Enrolment **(834 EDI)**, Claims and payment advice **(835 EDI)** and Claims Management **(837 EDI).**

- Seamlessly integrated **HP's Exstream** platform to collaborate and manage content workflow and approvals to achieve maximum efficiency in rapidly creating complex and variable document applications.
- Connected **HealthRules** to one of the largest healthcare payment networks **Instamed** to efficiently process complex payments via various channels and to update multiple third party systems in realtime

Apr 2011 - June 2013   **Illumina Inc., San Diego.**

- **Role:** BizTalk ESB Developer
- **Platform:** BizTalk Server 2010, 2006 R2, BRE, ESB Toolkit 2.1, .Net framework 3.5/4.0, SQL Server 2005/2008 R2, IIS 7, TFS, Visual Studio 2005/2008/2010
- Illumina is leading manufacturer of Genetics and health technology instruments. Illumina's technologies are used by a broad range of academic, government, pharmaceutical, biotechnology, and other leading institutions around the globe. Scope of this project was to upgrade its existing BizTalk 2006 infrastructure with BizTalk Server 2010 and maximize the use of ESB Toolkit 2.1 to build an enterprise level service bus.
- Many other interfaces included with business systems like Camstar manufacturing management system, LIMS Manufacturing (Java), SABA Learning management system, iCom – enterprise ecommerce (.NET), SalesForce CRM (Cloud) and Agile – PLC Management (Oracle).
- **ESB Toolkit 2.1 :**
  - Extensively utilized dynamic functionalities of ESB Toolkit 2.1 to develop loosely coupled, dynamically managed integrations using Itineraries, ESB Portal, BizTalk Rule Engine and UDDI
  - Developed **one-way / two-way itineraries** to reuse artifacts and implement SOA Architecture.
  - Some of the most common tasks were to call various web services, perform SQL operations using WCF-SQL adapter, and perform multiple routings and transformations based on the message type or thru promoted properties.
  - **Used JD Edwards LOB Adapter (Static ports) from itinerary.**
  - Exposed many of the **itineraries as web service**. Developed some itineraries to use **custom orchestrations as services** to incorporate some of the legacy system's abilities.
- **Orchestrations**
  - Used BizTalk orchestrations to manage some of the most complex and long running work flows that incorporated multitude of business systems including ERP, CRM and Manufacturing.
  - Used JD Edwards LOB adapter, WCF SQL Adapter, WCF Custom adapter, traditional MSMQ and SQL adapters to integrate various systems.
  - Orchestrations are exposed as web services to be consumed by other applications. Similarly many web services were consumed in the orchestrations.
  - Incorporated the use of itineraries from within the orchestrations to extend the reusability of itineraries and to achieve dynamic behavior.
  - Upgraded few of the old applications from 2006 to 2010 and transformed them to use ESB framework. This **dramatically changed the physical architecture**. Increased the performance at a great scale and reduced the number of orchestrations by utilizing the ESB functionalities.
- **Exception Handling**
  - Developed and used both **custom orchestration based** and **ESB Toolkit exception framework**. Created a custom orchestration and an **email service** that is being used across all applications for fault handling and notification.
  - Developed an **MSMQ-SQL based application** that will **automatically resume the suspended applications** from the point where they were suspended from.

- o Made extensive use of the **ESB Toolkit Exception Handling Framework**. All the itineraries were developed that the specific fault message was created to be handled in either custom exception orchestration or ESB Toolkit
  - o Developed a bridge between the custom and ESB framework to sync the exception emails.
  - o ESB portal was used for alert subscriptions. This strong exception framework is highly appreciated across the organization for its intelligence.
- **Rules Engines**
  - o Extensively used **BRE** and **UDDI** for runtime resolution or routing endpoints and / or maps.
  - o Used BRE to maximize the **dynamic transformations** within itineraries.
  - o Used UDDI to store all the endpoint configurations. Also developed some **custom tmodels**
  - o Both UDDI and BRE were also used in the orchestrations. **UDDI classes** were used to create a .NET component which was easy **to use in orchestrations**.
- **Functoids**
  - o Designed and developed an **SSO functoid and custom database lookup functoid** with the back-end SQL framework to hold configurable values. This functoid is used **numerous times** across the applications as a handy way to give control of configurable values to the users.

Feb 2008 - Mar 2010   **Earth Travel Technologies LLC, NJ.**
- **Role:** .NET and BizTalk Consultant
- **Platform:** BizTalk Server 2009, 2010, BRE, ESB Toolkit 2.1, .Net framework 3.5/4.0, WCF, SQL Server 2005/2008 R2, IIS 6/7, TFS, Visual Studio 2008/2010.
- Earth Travel Technologies provides distribution - middleware software to hotels companies that enable them to update all third party distribution channels from one easy to use web interface. Third party distribution systems include GDS, ADS, Expedia Networks, Sabre Networks, Galileo Networks, and any other party that fetches the hotel inventory from this system from around the world.
- Developed multiple web services using BizTalk Orchestrations and ESB Itineraries.
- Extensively used BRE to make dynamic mapping and routing in Itineraries. Occasionally used Rule Engine Policies within orchestrations to make some business level choices.
- Developed orchestrations to handle some of the complex business processes.
- Extensively used WCF-SQL to communicate to the SQL Server and WCF-Custom to consume third party web services.
- Made most use of ESB toolkit and its artifacts to develop dynamic processes
- BAM was used in applications to monitor process statuses and for reporting to the business teams

Jan 2004 - Jun 2005   **RiTech Technologies, India.**
- **Role:** Jr. DOT NET developer
- RiTech Technologies is one of the early stage web development companies in Anand-Gujarat area. I worked as a junior .Net Developer and assisted the team in developing web applications for clients. My role was limited to .net technologies but I also got hands on with PHP, SQL, MySQL and other technologies at that time.