**VAMSI VAYALPATI**

**Sr. BizTalk & EDI Developer**

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**SUMMARY**

* **Over 7 + years of total experience in software development includes Strong Experience as BizTalk Consultant for EAI and B2B applications using BizTalk Server 2013R2/2010/2009/2006 R2/2006.**
* Experience in BizTalk server message integration using **Schemas, Maps, Ports, Orchestrations, Pipelines,Adapters, BAM, Shapes**, and developed applications.
* Expertise in **Microsoft BizTalk Server 2006, 2006(R2), 2009, 2010 and 2013 R2 C# and .NET** dealing with Implementation Web Portal, Websites and Client/ Server Application Level designing and Programming.
* Experienced in developing **Custom Pipelines** and deploying **Schemas, Maps** and **Orchestration** for BizTalk 2013 R2/2009/2009/2006 R2/2006 solutions.
* Extensively worked on PL/SQL Stored Procedures, Functions, Triggers, [Packages](http://hireitpeople.com/resume-database/71-sap-resumes/17194-sr-biztalk-esb-developer-resume) and DTS Packages in **SQL Server2014/2012/2008/2005/2000**and good knowledge on SQL Server Integration Services **(SSIS)** packages**.**
* In-depth experience with XML Technologies like **XML Schema, CXML, XML DOM, DTD, XPath, XQuery and XSLT.**
* Experience in creating Maps to perform data transformation using BizTalk mapping tool.
* Strong knowledge in **publishing Schemas** and **Orchestration** as WCF service and consuming WCF service and Web service hosted by different layers.
* Experience in building applications using **BizTalk Adapters** such as **File, SOAP, SFTP, FTP, HTTP, WCF, SQL, POP3, SMPT** and **Custom Adapters**.
* Processing XML Messages using **XPath and XSLT** for **Data Transformations, Translations, and Aggregations.** Adequately experienced with XML using in Workflows and automation.
* Experience in **Service oriented architecture (SOA),** Business Rules **(BRE)**, Policies and Business Activates, Web Services and WCF using BizTalk Server.
* Implemented BizTalk **Custom Adapters** to access the **ESB**. Utilized BizTalk Business Activity Monitoring (**BAM)**, Business Activity Services **(BAS)**, and Health and Activity Tracking **(HAT)** tools to monitor BizTalk processes.
* Strong knowledge in using Databases like **SQL Server 2012/2008/2005/2000** and **Visual Studio 2005/2008/2010/2013.**
* Design and programming experience with web technologies like **HTML, DHTML, XML, WSDL, XSL/XSLT, Web Services** and JavaScript.
* Experience in Installation and setup of **Single-sign on (SSO)** also involved with clustering on SSO and SQL Server.
* BizTalk Naming Conventions and Standards, BizTalk Unit testing framework.
* Provided test support for **system testing, integration testing, user accepting testing, and performance testing** for **BizTalk 2006/2006R2/2009/2010/2013 R2**solutions.
* Evaluate, troubleshoot, and performance monitor custom BizTalk applications and Implement BizTalk application tuning and programming optimization to achieve maximum performance.
* Deployed **BizTalk applications** to respective **development/testing** environments by exporting and importing .MSI files and bindings.

**TECHNICAL SKILLS**

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| --- | --- |
| **Operating Systems**: | Windows Server 2003/2008/2012, Windows XP/7/8 |
| **BizTalk Server versions:** | BizTalk Server 2013 R2/2010/2009/2006R2. |
| **BizTalk Tools:** | Adapter Framework, Editor, Schemas, Mapping, Orchestration, Pipelines, Business Rules Engine, HAT, BAM, SSO, BHM Business Activity Services, ESB 1.0/2.0/2.1. |
| **Tools:** | Visual Studio, .NET 2012/2010/2008/2013, Team Foundation Server (TFS) 2013, MS VISIO, MS Office. |
| **Databases:** | SQL Server 2012 R2, 2008 R2/2005, PL/SQL and MS Access, DB2 |
| **Web Servers** | IIS 6.0/5.0 |
| **Programming Languages** | C#, HTML, DHTML, XML, XSL, WSDL and XSLT, VB.NET, ADO.NET, ASP.NET, Java Script, pearl. |

**PROFESSIONAL EXPERIENCE**

**Merck & Co. Inc, MA .** Nov’ 14 – Present

**Sr. BizTalk developer**

As a BizTalk Developer, I participated in migrating BizTalk 2009 Non- Vantage and Vantage Interfaces to BizTalk server 2013 R2. Involved in creating different types of schemas like Flat File, envelope, XML, and also participated in creating complex orchestrations and mappings. Made extensive use of BAM and BRE and successfully tracked and routed different failed messages to appropriate destination for further validation.

**Responsibilities:**

* Locked the Interfaces in the **TFS 2008 server** for Migration.
* Upgrading and Migrating Interfaces and business rules from **BizTalk Server 2009 to a new environment .Net 4.5, BizTalk Server 2013 R2.**
* Developing several complex **Schemas, Maps, Orchestrations, Ports and Custom Pipeline Components and Business Rules**.
* Regenerated and Refactored Schemas and Maps for the migration to use in the new WCF adapters.
* Implementation of 150 suppliers to the use of electronics orders and invoices**(EDI 850,810)**. Management and Configuration of all **EDI** and **SAP** components.
* Implementation of an **EDI** solution to modernized the current legacy application using GENTRAN AS400. Analysis, Development of Biz talks components such as **Maps, Schemas,and Orchestration** of the **EDI** transactions.
* Involved in the setup of **EDI** system from the initial phase to final testing and implementation in numerous projects.
* Setup and Testing of **EDI** system for multiple enterprises as per the company standards and requirements of enterprise.
* Migrated Maps from **XslTransform class to XslCompliedTransform** class for better performance and security.
* Configured the Orchestration in BizTalk Server administration Console.
* Upgraded the old SQL Server Adapter to the **new WCF SQL Server Adapter**.
* Replaced the LOB Adapters (SAP) and use the new WCF Adapter.
* MigratedBusiness rules from the existing BizTalk Rules Engine to the new BizTalk 2013 Rules Engine.
* Configured various out of box adapters **File, SMTP, SAP-WCF, FTP, WCF-Custom (HTTP), WCF-Custom-SQL Server, SFTP, Remote Scripting, SOAP and the Scheduler Adapter**.
* Created custom pipelines for encryption and worked on writing custom pipeline components for BizTalk message archive.
* Designed and developed custom pipeline components in BizTalk for faster performance.
* Replaced the existing legacy **SFTP and PGP** components with new **nSoftware 4.1 components.**
* Prepared additional Unit test cases and involving in the end to end testing of the BizTalk interfaces.
* Created applications based on .NET components and developed C# scripts for configuring BizTalk settings, expanding MSIs .
* Implemented **SSO** for secure, scalable and highly available store for the BizTalk application configuration.
* Tested migrated applications, rules andsetup binding’s files for each environment.
* Used **BizTalk Health Monitor (BHM)** to monitor dashboard view for overall health of BizTalk Environments and Generate and View MsgBoxViewer (MBV) reports.
* Deployment of the existing interfaces to the production environment using **BizTalk MSI** deployment wizard.
* Deployment of the remaining interfaces into the appropriate environments using MSI.
* Worked with Team Foundation Server as the source for version control and project issue management.
* Identified the interface changes performed as part of the upgrade and update the documentation.
* Updating documents in final draft identified in the Envision and Plan phase of this engagement.
* Provided guidance on configuration of BizTalk log shipping.
* Provided side by side work with the team while engaging in discussions with respect to architectural decisions and answering technical questions.
* Post Production Monitoring and Supporting for migrated interfaces after Go-Live.

**Environment: BizTalk Server 2013 R2/2009, SQL Server 2014/2012/2005, SAP, .NET Framework 4.5/4.0/3.5/3.0/2.0, MS Visual Studio 2008/2010/2013,Windows Server 2012, EAI, SOA, Host Integration Server, BAHS 2.0, Advanced Functions, Flat Files, BRE 2.0/2.1, XML, XSLT, WSDL, WCF Services, SOAP, nSoftware, Single Sign-On (SSO), BAM, Team Foundation Server (TFS) 2013, EDI, BRE, UML, SAML,Web forms, ASP, JavaScript, Web Services, WCF, ADO.NET, T-SQL, Team Foundation Server (TFS).**

**DTCC global Financials,NY.** (Mar’14 – Nov’ 14)

**Role: Sr. BizTalk Developer**

**Responsibilities:**

* Upgraded **BizTalk 2006 R2** environment by **migrating BizTalk 2006 R2** entities to **BizTalk 2010.**
* Analyzed the existing BizTalk environment and designed the Infrastructure for a new **BizTalk 2010** environment.
* Performed gap analysis to find out the non-compliance of the other systems.
* Extensive use of **Envelope Schemas**, and all other schemas like **XML and Flat Files.**
* Developed **Maps** involving **complex mappings** and extensively used custom in-line **C# components** and **XSLT** in mappings.
* Worked on generating an **XSLT file** from an existing map created using the BizTalk Mapper and developed complex maps for vendor integration.
* Used **Advanced Functions** like **Looping, Value Mapping, Scripting, Logical**, and created maps for message transformation.
* Worked with **XPath** inside **Orchestrations** to read values and set values inside message.
* Used Integration patterns like **Splitter, Aggregator and Convoys**.
* Created **Orchestrations** with Messages going to Stored Procedures as a Request-Response and performing **Business rules** on the Response XML from the **Stored Procedures**.
* Implemented **ESB Exception Handling Architecture** to integrate with the trading partners to provide secure, reliable, transactions to its customers.
* Configured various out of box adapters**FILE, SQL, HTTP, WCF, SOAP, SMTP**and **Custom Adapters** for communication with several end points.
* Developed **stored procedures (SP)** and functions to insert data and retrieve data from SQL Server 2012 database.
* Created custom pipelines for **disassembling Flat Files**and worked on writing **custom pipeline components** to copy files from zip file and include file path in xml message.
* Developed several **Interfaces/Orchestrations**, Forward and Reverse chaining direct boundorchestrations and compensation logic for failed Long Running transactions.
* Framed **Business Rules Engine (BRE)** Vocabularies, Rules and Policies for validating Primary loan data.
* Implemented **ESB exception management** to communicate BizTalk errors and routing failures.
* Appropriate usage of Failed Message routing within BizTalk environment at different ports.
* Created reconciliation & detail reports for the data flow within BizTalk using **BAM (Business Activity Monitoring)** framework and tools including **BAM Activities/Views/Aggregation**.
* Involved in Performance Monitoring Test for Normal and Peak Load to calculate the Process time and delivery time using **BizTalk Performance Monitoring Tool.**
* Responsible for fixing and trouble-shooting various issues in production.
* Implemented and ran the test cycle using TFS Unit test suite. Tested WCF services using WCF-Test client tool.

**Environment: BizTalk server 2010/2006R2, BizTalk 2013 visual studio 2010/2005, Windows 2003/2008 R2, SQL server 2005/2008/2012, PL/SQLProgramming, XML, XSLT and XPath C#, ADO.Net, MQ Series, MSMQ, TFS, WCF Services, BRE,ESB2.2, HTTP, Web-services, Windows Services, BAM, .NET Framework 4.0, BizUnit.**

**Creehan& Company Corporation, Canonsburg, PA** (May’13 – Jan’14)

**Role: BizTalk Developer**

This project involves a massive BizTalk integration effort, integrating diverse platform like mainframe system, Share Point portal and SQL Server Database. BizTalk Server is also utilized to Integrate online transaction processing, workflow, and external systems to deliver full range of business services to its customers and staff.

**Responsibilities:**

* Design, Implement, Administer and troubleshoot a highly available BizTalk and MSQL environment.
* Involved in Designing, Implementing, Deploying and Debugging of BizTalk Orchestrations using **BizTalk Server 2010.**
* Involved in the **Software Development Life Cycle** (**SDLC**) of the project starting from design, development, testing and deployment.
* Designed & developed BizTalk solution using **SOA and EAI** patterns.
* Integrated **Microsoft Dynamics CRM 2011** with BizTalk 2010. Used typed option to create a helper class that does the communication to CRM, which can use from orchestrations.
* Designed and developed several new and complex **Schemas**, **Maps, Orchestrations**, **Ports, Pipelines** and **Pipeline Components** for the project.
* Developed **Map**s using **XSLT** and prepared mapping documents as per requirements.
* Implemented **Business Activity Services(BAS)** to meet extremely tight integration schedules for integrating Mainframe systems, SharePoint portal using BizTalk.
* Implemented **enterprise solutions** using the **Business Rules Engine (BRE).**
* Used **BRE in** the **custom pipeline component** to set the document schema for flat assembler at runtime using Fact Retriever.
* Involved in working with BizTalk native **adapters** like **FILE, WCF-SQL** and Host Applications **(BAHS)** using Messaging, **Orchestrations, Pipelines, Adapters, Transaction Integrator (TI),** Host Integration Server **(HIS)** and admin console.
* Exposed **Web Services**, **WCF services** using **orchestrations** and **schemas**.
* Dynamic routing of messaging used based on process request to send emails to different groups. All the notification values (from, to, subject, body etc.) are configurable.
* Developed, executed and tested BizTalk applications.
* Supported BizTalk and implemented enterprise integration patterns.
* Analyzed and executed BizTalk server applications to multiple customers.
* Integrated various application components and updated BizTalk applications.
* Assisted completing an error-handling framework that supported task retries and incorporated Exception Handling for all **B2B and EAI integrations**.
* Used **SSO Client Utility** on Batch Server to extract SSO configuration values from BizTalk SSO Database.
* Conducted routine maintenance tasks including security patches and service installation.
* Installed BizTalk in Multi-Server Environment that involves cluster SSO.
* Conducted system analysis and prepared user reference guides.
* Package Solutions for deployments to various environments including production, Dev-Integration and User Acceptance Testing **(UAT).**
* Developed end-to-end **WCF Services** using **.Net 3.5** and Involved in performance testing of the application.
* Implemented **Unit Tests** using **Visual Studio 2010** built in test engine. The unit test verifies service endpoint functionality and also run an end-to-end test.
* Working with **Team Foundation Server (TFS)** as the source for version control and project issue management.
* Prepared Unit test cases and involved in the end to end testing of the **BizTalk interfaces**.

**Environment: BizTalk Server 2010, SQL Server 2008, T-SQL, .NET Framework 3.0/3.5, MS Visual Studio 2010 Team Suite, EAI, SOA, Host Integration Server, Microsoft Dynamics CRM 2011, BAHS 2.0, Advanced Functions, Flat Files, BRE, XML, WSDL, WCF Services,SOAP,HAT, TPE, Single Sign-On (SSO), Business Activity Services (BAS), Team Foundation Server (TFS).**

**TJX Companies, Framingham, MA (May’12 – Mar’13)**

**Role: BizTalk Admin**

The primary function of this role was to design and develop complex integrations using Microsoft BizTalk and to translate specifications and design into BizTalk orchestrations to high coding standards.

**Responsibilities:**

* Developed Interfaces using **BizTalk Server 2006(R2), 2009**.
* Involved in Requirements gathering, Analysis, Design, Development, Deployment, Testing, and Go-Live stages of the project.
* Hands on experience in installing BizTalk server 2009 in production, development and test environments including Windows Server 2008, IIS and **MSSQL Server 2008.**
* Created **Schemas, Maps,** Configured Input and output port, Designed **Orchestration** to process routing.
* Configured and managed **BizTalk Artifacts** under individual applications.
* Involved in design of BizTalk Technical Strategy for several inputs and outputs, in various formats, including **Flat Files, Xml files and SQL Tables**.
* Created **Map XSLT** files using BizTalk mapper with general functions as well as advanced functions for complex mappings.
* Created **BizTalk Orchestrations** to implement Business Logic on the data from the SQL Files, and routed messages accordingly in to the specific SQL table.
* Used BizTalk receive **pipeline** to grab the message from the queue and passes the XML data into SQL server database.
* Configured **adapters** for sending messages to SQL Server from BizTalk Server.
* Worked with **HTTP, FTP, SAP, MQ Series, SOAP and SMTP** Adapters.
* Worked with **ESB architecture** and developed Custom Pipeline Component as part of the **ESB** for the use of BRE to define Trading Partner contract.
* Responsible for deployment of business components, which are used in both BizTalk and Web Applications in Global Assembly Cache (GAC).
* Actively worked with **BizTalk Rules Engine (BRE)** and create validation rules and call rules from BizTalk Orchestration.
* Implemented activity tracking and setting alerts using **Business Activity Monitoring (BAM)** and Tracking Profile Editor.
* Instrumental in increasing the performance of all the applications in **BizTalk 2009** by enhancing code architecture.
* Deployed the BizTalk and **.Net applications** (Development, QA and Production) and **unit testing** the applications.
* Tested developed applications, solutions, and artifacts on local machine.
* Used **Team Foundation Server (TFS)** for version control and source code sharing.

**Environment:BizTalk Server 2009/2006 R2, C#, ASP.Net, XML, SQL Server 2008/2005, ADO.NET, BRE, BAM, TFS, .Net Framework 2.0/3.5/4.0,GAC, BAM, BizTalk Deployment Framework.**

**SEI Investments, Oaks PA (Nov’11 – April’12)**

**Role: BizTalk Developer**

SEI is a leading global provider of asset management, investment processing, and investment operations solutions for institutional and personal wealth management. In this project I was responsible for architecting and implementing a Microsoft .NET and BizTalk based solutions. The solution involves developing an ASP.NET portal, C# class libraries, Microsoft SQL Server assets, and BizTalk schemas, pipelines, integration components, and orchestrations from scratch.

**Responsibilities:**

* Designed and Integrated BizTalk Server with internal back end systems
* Installed **BizTalk 2006 R2, Visual Studio 2005, SQL Server 2005, WCF LOB** Adapters on developer machine.
* Created schedule tasks and window services using visual studio.
* Developed document specification **schemas, maps, envelopes and orchestrations** in BizTalk server for Inbound and outbound.
* Used **Maps** and **mapping Functions** extensively and written **Test-cases** using Map-helper.
* Created receive ports, receive locations and send ports and send port groups. Used **FTP, HTTP, FILE, SQL, SOAP** and **WCF** adapters.
* Developed automated **B2B applications** sending/receiving files, which are converted to XML andimported in SQL Server thru stored procedures using **SQL BizTalk Adapter**.
* Exposed **Schemas** as Web Services and also consumed external Web services.
* The BizTalk mapper tool is used to **Map** source and destination specification Schemas.
* Created custom code using C#.NET in the BizTalk for writing inline C# code in **Functions.**
* Developed orchestrations to meet the business process requirements.
* Worked with transactional and non-transactional **orchestrations**.
* Created **Pipelines** with header, Document and **Schemas** for Flat files.
* Defined **XML schema** specification, port and channel were configured to send and receive files from BizTalk server 2006.
* Configured **event viewer** for BizTalk server related errors and viewed application related errors in event viewer.
* Developed Business Activity Monitoring **(BAM)** for Orchestrations and to monitor Business Processes.
* Tested developed applications, solutions, and artifacts on local machine.
* Created documentation for all applications and processes.

**Environment:BizTalk Server 2006R2/2009, .NET Framework 2.0/3.0/3.5, C#, MS Visual Studio 2008 Team Suite, SQL Server 2005/08, Flat Files, EDI, BRE, UML,SAML,Web forms, ASP, JavaScript, Web Services, WCF, ADO.NET, T-SQL, Team Foundation Server (TFS).**

**Prod cast, India (Oct ’10 - Aug’11)**

Vigor Intake

Role: BizTalk and .NET Developer

Vigor Intake project focuses on the consolidation of all financial processes onto one integrated financial accounting system that will consolidate business processes and data across the organization into a single ERP platform.

**Responsibilities:**

* Work in co-ordination with the client for Requirement gathering and Analysis to design and develop the new features of the Website.
* Used BizTalk Design pattern for Decoupling BizTalk Orchestration Processes.
* Documenting the process flow, mapping requirement, orchestration Message Flow. Participated in migrating **XDR** schema from **Biz Talk Server 2004** to **XSD Biz Talk Server 2006R2**.
* Used several configuration methodologies to dynamically change database connection strings and retry parameters using both the BizTalk Service configuration file as well as the BizTalk Rules Engine for higher level business variables as well as for logging and tracing work-flows.
* Used SQL Adapter to Update, Extract data from the SQL Server Database.
* Used **Dataset** and **Data Reader** to retrieve data from SQL server database using **ADO.NET**
* Worked with **Visual SourceSafe (VSS)** as a source control software to make the client access the files in the database through command-line without damaging the database.

**Environment:BizTalk Server 2004/2006R2, SQL Server 2005, ASP.NET 2.0/3.0, Visual Studio 2005 , ADO.NET, T-SQL, Orchestrations, Schemas, Adapters, Flat Files, EDI, BRE, XML, WSDL, SOAP, Web Services, WCF, UML, Web forms, Visual Source Safe (VSS).**

**SignityInfoTech, India (Nov’09 – Sep’10)**

Producer Connectivity System

Role: .NET Developer

The project Producer Connectivity System (PCS) is aimed at building an integration layer and workflow solution that helped automate processes and integrate with other systems while continuing to use its old application for back-office processing.

**Responsibilities:**

* Involved in the analysis, design and development of the system.
* Involved in writing the low-level design document **Using Rational Rose (UML).**
* Implemented Validation **Controls, Web Controls, Html Server Controls, and Data Grids**.
* Configured many number of **BizTalk Adapters** (File, HTTP) and involved in deployment and production roll out.
* This project involved developing a Client and Server. Implemented using connectionless, Connection-oriented, Iterative and Concurrent Services.
* Created automatically generated e-mails using **SMTP** (create object of type mail message and add To, From, Body, Subject and send it using Smptmail.send.
* Applied the debugging techniques for resolving the issues during integration.

**Environment:SQL Server 2000, ASP.NET 1.1, Visual Studio 2003, ADO.NET, Flat Files (Positional & Delimited), Web Services, SOAP, WSDL, NUnit, Microsoft Visio 2003, UML.**

**Citi Group, India (Nov’08– Sep’09)**

**Role: .Net Developer**

Citi Education Finance user Interface

This project facilitates Loan Originations and Loan Processing functionality. This is a Web Based user interface, which consists of different pages for New Loan Application, Authentication, Borrower-Cosigner Information and Account Generation, Prequalification, and history Status

**Responsibilities:**

* Designed User interface using **ASP.NET** and **Web Forms**
* Designed User controls for Smart Navigation and Menu systems
* Used **XML, XSLT** and Cascading style sheets to set styles on ASP.NET pages
* Written Business logic in C# and exposed as a Web Service
* Developed Validation and custom Error Handling components for the above modules using **C#.NET** assembly component architecture.
* Designed and implemented the application using **VB.NET** and **ADO.NET** with MS Visual Studio.
* The Data-Access layer was implemented using ADO with Database being **SQL Server 2000**.
* Wrote stored procedures for accessing the data from SQL.
* Implemented Online User Interface
* Created Stored Procedures, Functions and Table Schemas
* Tested, Deployed and Configured on Web Server

**Environment**: **Visual Studio.NET 2002,VB.NET, C#.NET, ASP.NET, Web Forms, SQL Server 2000, XML, Windows XP Professional,ADO,VB.NET**

**EDUCATION**

* Bachelors in Electronics and Communications Engineering, JNTU, India-2008.