

# AYAN KUMAR SEN

TECHNOLOGY ANALYST | INFOSYS LIMITED

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Current Location: Pune

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Total Experience: 6 Years

A highly accomplished Software Development Professional over 6 years of experience in delivering successful enterprise solutions in heterogeneous, distributed environments encompassing full development life cycle.

## **Skills:**

**XML/Web Services:** XML, XSD, XSLT, SOAP, WSDL, Xquery

**Programming Languages:** BPEL, XML, Xquery, XSLT

**Middleware Technologies:** Oracle Fusion Middleware 12c (Oracle SOA Suite, Oracle Weblogic, OSB), Oracle WebLogic Integration, IBM MQ WebSphere Explorer

**SOA Adapters:** FTP, JMS, DB, Oracle Apps, MQ

**Tools & Utilities:** JDeveloper 12c, SOAP UI, SQL Developer, WINSCP, PUTTY, Postman

**Web/Application Servers:** Oracle WebLogic Server 12c, WebSphere MQ, JMS Server

## **Professional Experience:**

- 6 years of IT experience in Analysis of complex services, designing new services and developing SOA solutions in including Orchestration and Integration Technologies in the areas of Web Services, OSB, SOAP, WSDL, BPEL and XML
- More than 5.5 years SOA developer experience in large-scale SOA implementations using Oracle Fusion Middleware on 12c (Oracle JDeveloper, Oracle SOA Suite, Oracle OSB, Oracle WebLogic)
- Extensively used SCA composites and components such as BPEL process, Mediator and activities like Assign, Invoke, Pick, Receive, Switch, Flow, Email, Wait, While, Validate etc. in JDeveloper.
- Working Experience with Service-Oriented Architecture and its related technologies like BPEL, Web Services, WSDL, SOAP, XML, XSD, XSLT and Web Service Security.
- Experience in Development of OSB Proxies using Pipeline pair, Routing (Dynamic, Static), Service Callout, QoS, DVM.
- Experience with SOA Suite technology Adapters for integration solutions between enterprise applications: Database, JMS, FTP, File, Web Service, Oracle Apps, MQ.
- Experience in Designing, Developing and Deploying structured BPEL, OSB and Web Services using SOAP over HTTP and REST
- Worked extensively in designing and building robust and fault-tolerant Fusion Middleware components in OSB using the Oracle Fault Management Framework
- Experience in Designing, Developing, and deploying the Proxy-Business Services through Oracle Service Bus (OSB) for accessing and exposing Services HTTP, SOAP, JMS, JMS to external systems.
- Experience in Integration of Legacy applications, ERP applications using Oracle SOA Suite.

- Expertise in integration between third party systems or e-Business applications using different transports
- Hands on experience in creating SOAP and REST Web Services for consumption by external clients
- Experience in working with application servers like Oracle Application Server, Oracle Web logic Server
- Experience in tuning of OSB Services for better performance
- Good time management skills, self-motivated with excellent written and verbal communication skills and able to handle multiple priorities

## **Certification**

- Oracle Cloud Platform Application Integration 2020 Certified Specialist

## **Academic Qualification**

- Bachelor of Technology in Electronics & Communication Engineering from Biju Patnaik University of Technology (BPUT), Odisha in May 2015

## **Internal Services Developed:**

- **Auditing\E2E Message Tracing Service:** The purpose of this service is to provide a mechanism by which any unique transaction can be traced right from the source to the target (one way) or back to the source again. The framework uses a concept of message flow id (a unique transaction id) that it generates or picks up from the source message and uses the same to log the messages.
- **Notification Service:** The purpose of this service is to send out email notifications. This service can be utilized by any integration Interface (exposed internally via JMS\SAF) or any external third-party applications (exposed to outside world as REST\SOAP).
- **Error Handling Service:** This service is a wrapper service on top of Auditing and Notification Service and should be called from the exception block (OSB Error Handler or SOA Catch Block or J2EE try\catch). It will take care of logging the required error details, creation of error email (along with the input request and exception details as an attachment) and then uses the notification service to send out the details to the required stakeholders maintained via a DVM based on the interface rice id.
- **Automated Resubmission Service:** As the name suggests, the purpose of the service is to provide resubmission of the payloads that have failed after the max configured retry limit. However, this service should not be confused with the retry mechanism in OSB\SOA. The resubmission services provide guaranteed delivery of failed requests to End Systems.

## **Current Project**

**Client:** AUTOMOBILE MAJOR IN NORTH AMERICA

**Description:** Client is seeking to migrate its parts business from mainframe application to Oracle fusion with the help of integration technologies like OSB, ODI

### **Role and Responsibilities:**

- Onsite Experience as Integration Developer
- Developing codes as per design documents for various business flows.
- Understanding the client requirement and implementing them in our codes.
- Use of various adapters/transport (MQ, Oracle Apps, Oracle DB) available in JDeveloper12c to connect (Read/Write) various other environments and sub-systems from our OSB modules.
- Developing and maintaining various Oracle OSB components using Oracle JDeveloper 12c.
- Preparing technical design documents containing flow structure and design diagrams.
- Deploying the developed codes in Oracle EM Console and SB Console with proper version.
- Migration of code from DEV-> QA-> PRODUCTION, configuring/adding outbound connection pools, configuring MQ transport-based services to connect to Mainframe systems.
- Implementing Error Handler and CommonLogging in OSB to identify error at each level.
- Querying and monitoring logging from **OSB JDeveloper 12c** for various flows in the FMW DB and analyzing issues if found any.
- Expertise as Oracle Fusion Middleware Administrator, which includes managing and monitoring of managed servers and admin server.
- Having in-depth knowledge in analysis, design, development, customizations and implementation of Oracle MW applications.
- Provide IT support to critical business operations and solve any reported issues with SLA Timing.
- Designed and created complete BPEL Processes for orchestration using different process activities
- Created Proxy Services and Business Services to invoke target ERP applications using Oracle Service Bus.
- Created Stubs to test the OSB services. Used SoapUI for testing the Endpoint URL.
- Developed different SOAP\REST services using WSDL, SOAP and JDeveloper12c.
- Developed custom XPath functions to transform messages