OIC/SOA Integration Architect

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19 yrs Exp, ex-Oracle India
OIC, SOA, MOVEit, ODI, Azure,
Python, GenAI, Oracle AI Studio
IIT Kharagpur| BITS Pilani | DTU

Skills

Integration and Data Engineering	• Hands on experience solutioning and architecting integration solutions to move huge amounts of data on real-time basis using Integration tools like **Oracle OIC, Oracle SOA, Oracle ODI, MOVEit MFT, SwaggerHub** for RAML development • Using **Azure APIM** for managing and exposing web services securely using both key based and OAuth2.0 configurations • **NodeJS** for calling SOAP services from Windows command line • Used **PowerQuery** and **NodeJS** for converting complex JSON to Excel sheet • Used **PowerBI** to integrate with **Azure Blob Storage** and **MS SQLServer DB** • Interacted with numerous **REST** and **SOAP** APIs – Oracle HCM Cloud, Microsoft Graph, OpenAI, Etherscan, OpenSea, custom MuleSoft API, Oracle SOA Services • SQL/PLSQL and NoSQL skills with **Oracle DB**, **MongoDB** and **Snowflake** • Experience with **PGP** keys for encryption, decryption, **SSH** key for connecting to key-based SFTP servers, and **certificates** to connect to FTPS servers.
GenAI and Machine Learning	• Utilizing **OpenAI** API for chatbot development • Exploring **LLMs** and **RAG** for developing chatbots that read PDFs before replying • Solid experience using a variety of ETL tools for Data collection and cleansing- ranging from Python's **Pandas**, **BeautifulSoup** to **PowerQuery** to **Oracle ODI**
Languages	Python, JavaScript, Java (Certified), SQL (Certified)
Frontend	ReactJS (Certified), CSS fundamentals, Flask, Streamlit
DevOps	• Azure **ADO**, Azure **Pipelines**, Azure **Repo**, **SAFe** Agile for Project management • Docker
Project Management	• Served as **Product Owner** and Architect for an Agile Team for 2 years. Well versed in agile processes like Daily Scrum Calls, 10 weeks Program Increments • SAFe Agilist (Certified)
Other	• **Cryptography** and Network Security (taught to PG students at BITS Pilani) • **Accelerated AI** Tools and Frameworks – Certified from IIT through NPTEL • Fundamentals of **Machine Learning** from IIT through NPTEL

Professional Experience Summary

2008-2024

Integration Architect and Product Owner/ Emerson

Projects Served as Architect Role

- **Oracle OIC and SOA 12c** based solution to connect 500 source-destination pairs with real-time integration between variety of connection types like Oracle HCM, DBCS, DB, Oracle EBS, SAP, SFTP, FTPS, Sharepoint, AWS, Azure Blob, B2B. This ran for 10+ yrs in production. Used various patterns including **FBDI**, **fan-out**, **microservices**, **API-led** architectures etc.
- Exposed services out of OIC using **Azure APIM** with **OAuth 2.0** and **OKTA.** Have used Azure Pipeline and releases to enable APIM provisioning using **CICD** scripts.
- For file transfers, we utilize Managed File Transfer solutions like **MOVEit** and **GoAnywhere** which are more cost effective, flexible and easier to learn than traditional tools like Mulesoft and OIC/SOA
- Architected and developed **Nodejs** based solution to interact with HCM Cloud from Windows Command line
- Architected solution using **MOVEit** to send secure emails to customer (zipped file with password)
- Created dashboard for Support team to monitor a windows machine's available memory and CPU usage. Used a combination of **Powershell** script(to capture the stats), write it to **Azure Blob storage** using **MOVEit MFT** and then display it as a graph using **PowerBI**
- Evaluated tools such as **Oracle ODI**, **Informatica** and **Azure Data Factory** for ETL needs

Product Owner and Team Lead Roles

- Served as Product Owner for 8-developer team following SAFe Agile methodology using Azure ADO
- Led team of senior and junior developers spanning technologies like Python, Javascript, Java, SQL, Oracle SOA, GoAnywhere MFT, MOVEit and MuleSoft.
- Responsible for leading a team of DevOps engineers
- Experience incident tracking and management using ServiceNow platform
- Provided multiple trainings to mentor and onboard new joinees
- Contributed on the SOA governance team

2005-2008

Senior Applications Engineer in Oracle R12 Development Team/ Oracle India

- Developed BPEL process in Oracle Purchasing module of Fusion Apps that replaced existing Oracle Workflow code from Oracle Apps R12
- Senior team member in Product team that developed the Oracle Apps R12 and Fusion Apps products

Projects' Details

HCM Data Processing Flow: Automated File Handling for Oracle Fusion HCM 2017-2024
https://github.com/amitguptaforwork/integration_portfolio_projects/blob/main/OIC_HCMDataProcessingFlow_SFTP_OIC_FBDI_SFTP/README.md

- Requirement was to communicate HR data to Oracle HCM Cloud in specific format
- This Oracle Integration Cloud (**OIC**) project automates a multi-step data handling process involving ZIP file ingestion, UCM upload, **HCM Data Loader** invocation, and final report distribution via MFT (**GoAnywhere**).

Data Engineering to extract data from the largest Oracle database on the Planet

Emerson has multiple Oracle R12 installations and one of them uses a database called Betsy, which is *the* largest Oracle database on the planet in terms of size. As part of making this data available to a larger audience, we decided to create a Datawarehouse in Azure Datalake. This is a multi-year project where the intention is to expose this data via API and other routes so that more value can be obtained out of the data.

My Role:
- I was part of the team that liaised with multiple teams to setup pipelines to extract and clean data
- We implemented an **API-led architecture** for this solution
- We extracted data from source DB using **Azure Data Factory**
- We created APIs using **NodeJS** to expose the data

Migration of 400+ interfaces from Oracle SOA to OIC - 2020-2022

Oracle SOA was phased out considering licensing considerations. Thus it was required to reimplement all the 400+ file transfers in a new tool, OIC.
My Role:
- I was the Project Manager and Architect and for this project
- Built a complete project on top of **OIC** that allowed picking files from multiple sources like Oracle **HCM**, **DBCS**, **Oracle EBS**, **SAP**, **SFTP**, **FTPS**, processing the files (**encryption**, **decryption**, **zip**, **rename**) and delivering the files to multiple target types.
- 300+ integrations were reimplemented on this new system.
- Some integrations used FBDI. We uploaded data into HCM and also invoked HDL Service. Then we waited for report to get generated. Then we extracted the report and delivered it to an SFTP
- Integrations that were unrelated to cloud, like files from internal network, were implemented in a MFT tool **MOVEit**. This covered use cases like delivery to **SharePoint**, **AWS**, **Azure Blob.**

CPU and Memory Monitoring for Windows machine hosting MOVEit – 2023

In order to improve monitoring and ensure availability of our file transfer service, it was required to make it easy for support team to see the stats of the server.

My Role:

- I was the Architect for this project
- Developed a solution that ran a **PowerShell** script every 15 minutes that collected all the stats from the server. Then I wrote this data to a blob in **Azure container**
- Then connected **PowerBI** to read data from this Azure container
- Finally the PowerBI report was published so that it was easily accessible to the entire team.
- MOVEit uses MS SQL as its backend. Integrated with **MS SQL** to show **reports** like Failed instances in last 1 hr, MB transferred/hr in last 30 days, Files transferred/hr in last 30 days

Integration with Esker for digitization of documents such as Invoice, PO 2022-2024

https://github.com/amitguptaforwork/integration_portfolio_projects/blob/main/OIC_DataDigitalization_SFTP_OIC_RESTApi/README.md

As part of Federal requirements, companies are required to maintain data digitally. However, many documents like invoices and Purchase Orders, while being in digital form like a PDF or a text document, are not really searchable. Not much value can be extracted out of them. Emerson engaged industry-leading company called Esker which is capable of scanning the invoice files in various format (pdf, zip, xml) and then identifying the various elements and allowing Emerson to feed this into a data warehouse that stores each element in a searchable manner.

This is a multi-year ongoing project that is getting executed one ERP system at a time.

My Role:

- Worked on multiple projects and connected two **Oracle ERP** and seven **SAP** instances to Esker.
- Used **MOVEit** and **OIC** to deliver files, receive Acks. The project involved SFTP transfers as well as **REST API** based deliveries.

Architecting and Development of Oracle SOA 12c based Integration Platform-2012-2022

https://github.com/amitguptaforwork/integration_portfolio_projects/blob/main/SOA_3LayerFileTransferSystemWithMonitoringResubmissionGuaranteedDelivery/README.md

The Integration Center of Excellence team was to provide a central solution that could be harnessed by all Emerson verticals to exchange files within and outside Emerson. Solution needed to be flexible, scalable resilient (automatic and manual re-submission), easy to monitor, easy to audit, secure and maintainable.

My Role:

- I was the Tech Lead for this project
- Implemented **Oracle SOA Suite** based architecture to pick data from sources like **SFTP**, **FTPS**, **HCM Cloud**, processing the files (**encryption**, **decryption**, **zip**, **rename**) and delivering to varied targets.
- We **automated code development** so that developer could generate code using a **Java** utility

Education

2005

BITS Pilani/ Master of Engg. In Software Systems, Full-time, On-campus, Class Topper CGPA 10/10

2002

Delhi College of Engineering, Delhi/Bachelor of Engg, Full-time, On-campus, Class Topper

Licenses and Certifications

2025

Oracle Fusion AI Agent Studio Foundations Associate - Rel 1/Oracle Corporation
Verify: https://catalog-education.oracle.com/pls/certview/sharebadge?id=F63941A84AA517AD6C7464592121AAFAAB68D6903870CA05E4FEB48F2B744ED2

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate/Oracle Corporation
Verify: https://catalog-education.oracle.com/pls/certview/sharebadge?id=9EFE7293061E3A05B88836A1CC39AA36636169600193B0704003E31A8CDB8EE1

2024

Applied Accelerated Artificial Intelligence/IIT Palakkad through NPTEL
Topper 95+ Percentile with score 83%
Verify: https://nptel.ac.in/noc/E_Certificate/NPTEL24CS104S55020551103916649

Introduction to Machine Learning/ IIT Kharagpur through NPTEL
Topper 98+ Percentile with score 91%
Verify: https://nptel.ac.in/noc/E_Certificate/NPTEL24CS81S43680304802635913

Certified SAFe® 6 Product Owner/Product Manager/ Scaled Agile Corporation
Verify: https://www.credly.com/badges/a31b0ab1-8f5c-41ad-97da-b85bd2117c74

2023

ChatGPT, Midjourney, DALL-E3 & API Development/ Udemy
Verify: https://www.udemy.com/certificate/UC-28faca07-fda9-4b17-b49b-140515b732ef/

Certified SAFe® 5 Agilist / Scaled Agile Corporation
Verify: https://www.credly.com/go/k85Z59sE

Certified SAFe® 5 Practitioner/ Scaled Agile Corporation
Verify: https://www.credly.com/go/BQJIkO6s

2022

Blockchain and its Applications/ IIT Kharagpur through NPTEL
Topper 99+ Percentile with score 85%
Verify: https://nptel.ac.in/noc/E_Certificate/NPTEL22CS44S2353662902036900

2017

1Z0-808 Java SE 8 Programmer I ID: OC1680576 / Oracle Corporation
Verify: https://www.credly.com/badges/30c5f505-6984-49cf-ac6b-31e37a29f532/public_url

2003

Oracle Database PL/SQL Developer Certified Professional/ Oracle Corporation