



DEEPIKA J

SAP ABAP Consultant

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#### PROFESSIONAL SUMMARY:

- With 10+ years of experience in **SAP ABAP** and **ABAP on S/4 HANA** consulting, the individual has a deep and varied career that has taken them through a variety of industries, including manufacturing, retail, utilities, and energy management.
- Comprehensive hands-on experience across SAP modules such as MM, QM, SD, FI, and WM.
- Experience as an **SAP Gateway/OData Developer**, **HANA Modeler** (HANA SPS11 and SPS12), and **SAP Fiori** consultant with a focus on Launchpad configuration.
- Knowledgeable about creating unique front-end applications and screens using the **SAP UI5/Fiori** framework, and capable of utilizing the OData service to handle database functionality.
- Skilfully managed **Fiori Launchpad** setup for a flawless user interface.
- Proficiency in redefining the current OData services, customizing the **Fiori Apps** to meet client needs, and setting up the standard Fiori Application.
- Practical knowledge of SAP HANA principles, such as the design and use of **CDS Views** and the use of NetWeaver Gateway Service Builder to create **OData services**.
- Maintained database tables and structures in the Data **Dictionary**. Created new data elements, domains and search help, transparent tables. Customize/add fields to structures. Created **table maintenance generator**.
- Proficient in custom **IDOC** creation and maintenance, IDOC extensions, message types.
- Hands on experience in **Web Dynpro** programming, streamlining business processes.
- Worked on **Module-pool Programming** and screen creation.
- Expertise in **Object-oriented ABAP** programming.
- Knowledgeable about ABAP reports, such as Classical, **ALV reports**, and **Interaction reports**.
- Strong familiarity with **BADI** (Business Add-Ins), **User Exits**, and **Enhancement Spots** (both explicit and implicit).

- Proficiency with the Tables, Views, Search Helps, and Lock Objects among other SAP Data Dictionary Objects.
- Strong programming skills in **LSMW** (Legacy System Migration Workbench).
- Expertise in using SAP **function modules**, especially **RFC** function modules, and **BAPIs**.
- Proficient in creating applications for data movement.
- Vast expertise writing **unit test** scripts, technical specifications, functional specifications, and development integration test scripts.
- Expertise in **debugging**, analysing code bugs, and performance improvement, including the use of **ABAP Trace (SAT/SE30)**.
- Adept at migrating HANA databases using the **SQL Performance Tuning Worklist (SWLT)**.
- Resolved issues by analysing and utilizing **SAP Notes**.
- Ability to move repository objects between development, quality, and production environments using the **ABAP Transport Mechanism** with Revision Tracking.
- Ensured thorough documentation, upheld strict development standards, and placed an emphasis on code quality.

#### EDUCATION:

- Master's in computer science from the University of Central Missouri, Missouri in 2018.
- Bachelor's of Technology in Computer Science and Engineering from Sri Vidyanikethan Engineering College, India in 2012.

#### SAP Skill Set:

<b>Reports:</b>	Classical Reports, Interactive Reports, ALV Reports, OOABAP Reports
<b>Interfaces:</b>	RFC, IDOCs, ALE, EDI, External Systems (e.g., Quality Control Systems).
<b>Conversions:</b>	BDC, LSMW, LTMC.
<b>Enhancements:</b>	User Exits, Customer Exits, BADIs, Enhancement Spots/Points
<b>Forms:</b>	SAP Scripts, Smart Forms, Adobe Forms.
<b>Dialog Programming:</b>	Module Pool Programming, Screen, Table Controls, Sub Screens.

<b>S/4 HANA:</b>	ABAP CDS Views, AMDP, SQL Script, HANA Modelling.
<b>SAPUI5/Fiori</b>	Fiori App Development, SAP UI5, JavaScript, OData Services, Fiori Launchpad Configuration.

## PROFESSIONAL EXPERIENCE:

**Client:** Paradies Lagardere

**Jan 2023- Present**

**Role:** SAP ABAP Consultant

**Environment and Module:** SAP S/4 HANA, Fiori, SD, PM

Paradies Lagardere brings 70 years of experience in pioneering trends, developing innovative shopping and dining options, and delivering engaging experiences for airport travellers across North America. Their specialties include travel essentials, specialty retail, dining, and duty free.

### Responsibilities:

- Improved reporting capabilities by creating bespoke reports in the S/4 HANA system using ABAP ADT.
- To improve code efficiency and data access, AMDP (ABAP Managed Database Procedures) and CDS (Core Data Services) views were created.
- Created consumer proxies to update and communicate with employee core systems data.
- Worked in the transport models module of the SD (Sales and Distribution) and PM (Plant Maintenance) modules.
- Developed improvements to trigger the automatic transmission of work information, following technical fulfilment of work orders, to external systems, like GE.
- Built incoming proxies to make it easier for the SAP system to create notifications.
- Worked on OData implementation; this included constructing new OData models, updating conventional OData models, and implementing OData extensions for FIORI applications.
- Shown proficiency with the Entity Types and Complex Types that are part of the OData model.
- Adept at developing OData services using Model Provider Class (MPC) and Data Provider Class (DPC).
- Developed SAP HANA modelling, including calculation views (SQL script and graphical views), attribute views, analytical views, calculation privileges, and calculation views.

- involvement with the integration and service administration of SOA (Service-Oriented Architecture) Manager.
- Analysed performance with HANA\_CONFIGURATION\_MINICHECKS and made the HANA database compliant with ABAP code.
- Vast expertise improving custom programs by bringing code down to the HANA layer and designing SQL queries to take advantage of the capabilities of the HANA database.
- Reviewed and offered criticism on the developments that other team members had produced.

**Client:** Legrand, SC

**Oct 2020- Jan**

**2023**

**Role:** SAP ABAP Consultant

**Environment and Module:** SAP S/4 HANA, SAPUI5, Fiori, SD, MM

Legrand SA is a holding company, which engages in the manufacture of electrical and digital building infrastructures. Its services include the provision of control and command of electric power, cable management, power distribution, and voice-data-image distribution.

**Responsibilities:**

- Played a key part in overseeing the careful management of data migration using the LTMC tool and resolving data inconsistencies throughout Legrand's transition to S/4 HANA. tailored ABAP CDS views to guarantee effective and smooth data flow.
- Created ALV reports (SE38) to improve UPS (Uninterrupted Power Supply) module operations by offering data clarity and insights at power supply sites and connected houses. ALV Grid reports from the MM module were also implemented to improve inventory and maintenance management.
- Retrieved purchase order data from the MM module using common SAP BAPIs like BAPI\_PO\_GETLIST and BAPI\_PO\_GETDETAIL.
- SAPUI5, HTML5, and JavaScript were creatively used to create user-friendly Fiori applications that significantly improved accessibility and the overall user experience.
- Designed an SAP UI5/Fiori user interface for the Quality Inspection Results Monitoring application.
- Created a purchase order approval Fiori app by utilizing Object Pages and List Reports, two common Fiori components.

- OData services based on the current BAPIs were used to facilitate real-time changes and smooth interaction with the MM module.
- Enhanced the Home Automation module's operations by implementing BAPI upgrades and creating a dependable ALE/IDOC interface for proprietary systems.
- Detailed test cases were developed to confirm the Fiori app's usability and functioning, including its connection with common SAP BAPIs.
- Utilized OData services based on the existing BAPIs for seamless interaction with the MM module and to enable real-time updates.

**Client: SM Energy, CO**  
**Oct 2020**

**May 2019-**

**Role: SAP ABAP Consultant**

**Environment and Module: SAP S/4 HANA, SD, FI**

SM Energy Company is an independent energy company engaged in the exploration, development, and production of oil and natural gas resources. SM Energy is involved in the entire energy production process, from exploration activities to the development and extraction of hydrocarbons.

**Responsibilities:**

- Implemented an enhancement to provide the established substation rule for profit centre derivation ship is provided to the sales group upon creation of a sales order.
- Implemented a custom program to automate the creation of recurring journal entries in the Financial Accounting (FI) module using BAPI\_RECCREATE. The interface allows for the efficient posting of predefined recurring entries, streamlining the process of handling routine financial transactions and ensuring accuracy in financial reporting.
- Developed CDS views that extract key financial information from the "BSEG" table, including document number, company code, document date, and transaction amount. These CDS views are exposed through OData services, providing a streamlined and efficient way to access and consume financial data for reporting and analysis within the FI module.

- Utilized SAP's data dictionary and CDS (Core Data Services) to articulate comprehensive data models, views, and annotations. This initiative significantly enhanced data quality and accuracy across both FI and SD processes.
- Collaborated on optimizing data flows between the Sales and Distribution (SD) and Financial Accounting (FI) modules, with a specific emphasis on achieving real-time updates for sales revenue recognition and customer invoicing.
- Developing a report specifically for handling ' Vendor Rebate Processing ' and facilitating efficient posting through the Posting Interface Clearing transaction (FB05).
- Designed HANA CDS views using ABAP Development Tools (ADT) to shape data models, views, and annotations. This not only enhanced data validation but also improved data quality and accuracy in both Financial (FI) and Sales and Distribution (SD) processes.
- Competent in using tools like FFID to debug code in production environments, especially in crucial situations, and taking advantage of SAP HANA's real-time data analysis capabilities.

**Client: Anderson Merchandisers, TX**

**April 2018- May 2019**

**Role: SAP ABAP Consultant**

**Environment and Module: SAP ECC 6.0, SAP S/4 HANA, MM, QM**

Anderson Merchandisers is a well-known company in the retail and merchandising industry. Their core business activities are likely related to providing services to retail stores and merchandisers, such as product distribution, merchandising, and retail support services.

**Responsibilities:**

- Added personalized fields to the screen layout for ZE and ZD notification kinds in QM01, QM02 and QM03 transactions.
- Executed the outbound IDoc message processing for Sales Order Change Acknowledgment, incorporating customizations to the S1ORDEXC message type with modified segments.
- Configured a dynamic and adaptable Quality Management Dashboard within SAP S/4HANA to provide real-time insights into quality metrics and key performance indicators (KPIs). This dashboard allows stakeholders to monitor quality data, analyse trends, and make informed decisions to enhance overall product quality

- Developed an ABAP proxy program to seamlessly handle and process incoming Quality Notifications (QNs) and Material Documents (MATDOCS) originating from ESTOCK.
- Introduced a custom IDoc message type, ZOUT\_MSG\_MM, to facilitate the seamless creation of material documents in the Materials Management (MM) module. The development involved configuring the IDoc structure, specifying segment details, and implementing an ABAP proxy program for effective outbound IDoc processing.
- Implemented MM module ALV Grid reports to optimize inventory and maintenance management.
- Produced improvements and reports to help with the billing-related integration of MM (materials management), FI (finance).
- Performance bottlenecks were found by analysing programs using **ST12** tcode that ran and provide recommendations for optimization.
- Participated in gathering requirements and creating technical specifications.

**Client: Bayer AG, India**

**Sep 2013- Dec**

**2016**

**Role: SAP ABAP Consultant**

**Environment and Modules: SAP ECC 6.0, SD, EWM**

Bayer AG is a German multinational pharmaceutical and biotechnology company and is one of the largest pharmaceutical companies and biomedical companies in the world. Bayer's areas of business include pharmaceuticals, consumer healthcare products, agricultural chemicals, seeds and biotechnology products

**Responsibilities:**

- Created interactive sales reports using custom transaction codes in the SD module, allowing a more in-depth analysis of pharma and machinery sales by model and location and assisting sales teams in customizing their approach.
- Customized SAPScript templates to make necessary technical requirements and ensure that Sales order, delivery document layouts reflected Bayer's logo and all the information regarding the sale details.

- Utilized technologies such as the ABAP Debugger to guarantee data accuracy and system performance while regularly working with teams from the PM and SD modules to debug and improve custom projects.
- Thoroughly documented and developed detailed technical specifications to guarantee that standards and development needs were clear.
- Established smooth data flow between the SD and FI modules by configuring ALE/IDOC interfaces with tools like WE21 and WE20. This simplified procedures like invoice reconciliation and inter-branch stock transfers.
- Created thorough ALV reports that catered to Bayer's wide range of products and provided insights into distributor metrics, sales trends, and product performance for the Sales & Distribution (SD) module.
- Utilizing TCodes WE02 and WE05, IDoc processing issues were fixed by continuously monitoring IDoc statuses. Error-handling procedures were put in place to guarantee that unsuccessful IDocs were quickly reprocessed or fixed, reducing inconsistent data.
- Expanded on common IDoc kinds to satisfy clients particular needs, adding new segments and improving the ones that already existed, and making sure that all crucial data fields were correctly recorded and sent.
- Developed reports to provide purchase order and sales order billing details for efficient financial management.
- Worked together to streamline data transfers between the SD and PM modules, with a particular emphasis on real-time updates for sales orders and inventory levels.
- Designed a report to visualize the Sales Orders (SD) flow for a specific period, material and vendor, aiding in supply chain transparency.
- Developed Smart Forms for invoices within the Sales and Distribution (SD) module, converting them into PDF format for streamlined documentation and delivery.
- Implemented a custom report for dynamic storage bin determination in the WM module. The report considers factors such as product dimensions, weight, and turnover rates to dynamically assign optimal storage bins for incoming goods. This improves warehouse space utilization and minimizes the travel distance for order picking, enhancing overall warehouse efficiency.
- Enhanced the stock replenishment process in the WM module by implementing an automated replenishment strategy. This proactive approach ensures that picking locations are adequately stocked, reducing stockouts and improving order fulfillment speed.



**Client: Asian Paints, India**

**Jun 2012- Sep**

**2013**

**Role: SAP ABAP Consultant**

**Environment and Modules: SAP ECC 6.0, PP, MM**

Asian Paints Limited, is India's leading paint company, recognized for its innovative and sustainable solutions. Asian Paints has been a trailblazer in the paint industry, offering a diverse range of decorative and industrial coatings.

**Responsibilities:**

- Specialized in performance tuning, especially in optimizing database queries to use the in-memory capabilities of SAP HANA.
- Used inspector (SCI) and SLIN checks to verify code quality and compliance with SAP HANA best practices.
- Used the analytics and diagnostic capabilities of SAP HANA to examine production system dumps, pinpoint underlying issues, and suggest fixes.
- Implemented an enhancement point to adjust the pricing based on specific order quantities as per customer requirement.
- Implemented an enhancement for the production order creation process to automatically assign a default work centre based on the material group.
- Develop an enhancement to Check material type and add CHE in the beginning if it is a chemical.
- Implemented a custom ALV program to create a PO from PR's.
- Have hands-on experience with the ABAP development tools and toolkit (ADT).
- Implemented bespoke functionalities including batch-wise inventory tracking and custom pricing algorithms by utilizing user exits, BADI implementations, and enhancement spots in the PP and MM modules.
- Closely cooperated with functional teams to ensure faultless system implementations through unit and integration testing.
- Handled change requests and implemented changes as required by the evolving business needs.
- Generate documents for goods issue and goods receipt transactions related to the production process.

- Supported defect and issue analysis with a thorough understanding of SAP HANA's data processing and analytics capabilities, applying appropriate OSS notes, finding gaps, and offering technical solutions.