# Sai M

# Sr. POWER BI Developer

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**Summary:**

* Approx 10 years of experience in **Business Intelligence, Business Analytics,** and Data Analytics using, **Tableau, Power BI,** and SSRS.
* Expertise in developing **Power BI reports and dashboards** from multiple data sources using live and import query.
* Worked extensively in **MDX programming, DAX expressions, M programming analysis,** and business forecasts.
* Extensively created various **Power BI reports** utilizing the desktop and published reports to Power BI service and scheduled refreshes.
* Created various visualizations in the reports using Bar **Charts, Pie Charts, Line Charts, Cards, Slicers,** etc. Also, using different transformations inside the Power Query.
* Experienced on working with **HIPAA** translation based projects and on claim processing systems (claims and encounters).
* Extensively used user roles and groups and provided **row-level security** included in Reports.
* Created **advanced drill-down reports using Slicers and timelines,** linking reports to Bookmarks and parameters by including report-level filters, and page-level filters in Power BI.
* Extensively worked on **Optimizing Power BI reports** to meet the agreed SLA.
* Experienced in **Power BI working with different Enterprise Data** sources like SAP HANA, SSAS Cubes, Hadoop HDFS, SQL Servers, AWS Redshift, DB2, and the Extracts (auto/incremental) using RDBMS systems.
* Designed and deployed rich Graphic visualizations with drill-down and Drop-down menu options and **parameterized** using Power BI.
* High Skilled in writing Parameterized Queries for generating tabular reports formatting report layout, Sub reports using global variances, Expressions, and Functions, **Sorting the data defining data source and subtotals for the reports using SSRS 20162014/2012/R2/2008.**
* Crafted real-time monitoring dashboards using **Power BI amalgamating** live data feeds from various origins. Achieved a 30% reduction in critical system issue response time, facilitating swift anomaly detection and resolution through interactive visualizations.
* Installing and configuring the Personal and On-Premises **Power BI gateway** in Azure, connecting to data sources, and adding the different users.
* Key role in the Design and Development of dashboards and automated manual reports. **Migrated Business objects report/Cognos to Tableau** and sunset of Data Warehouse.
* Worked on the **Power BI** and **Tableau APIs** for the functionality enhancement **to** Host reports into Third-party UI applications.
* Custom SSRS 2012 reports as well as Tableau reports for large customers and senior executive leadership.
* Experience with **Linux systems, scripting Experience,** and building data pipelines.
* Migrated Database **from SQL databases (Oracle and SQL Server) to NoSQL databases** (Cassandra/MongoDB).
* Hands-on **experience with AWS.**
* Experienced in working with **Spring MVC-based applications using Rest-based web services to handle JSON** data.
* Performed **data cleansing enrichment** and mapping tasks.
* Created various sets of scripts and orchestration using **Autosys.**
* Having Experience in **managing Cassandra, MongoDB, and Oracle Databases**
* Developed workbooks with **ETL jobs on a daily basis to automate.**
* Experience in working with unstructured data developing workflows in **Alteryx** Designer with documentation and implementation of the processed data.
* Experience in writing **TSQL** (DDL, DML, AND DCL), developing/creating new database objects such as **tables, views, indexes**, complex stored procedures, function (UDF), cursors, and triggers, locking issues, BCP, common table expressions (CTEs).

**Technical Proficiency:**

**BI/Visualization Tools:** Power BI (Desktop, Services, Report Server)Tableau 2021.2.3, 2019.1, 2018, 10.5, 10.4, Qlik Sense, SQL Server Reporting Services (SSRS), SQL Server Analysis Services (SSAS).

**Programming**: SQL, PL/SQL, Hive, Hadoop Ecosystem, HTML, Python, Java

**Utilities**: MS Project, MS Word, MS Excel, MS PowerPoint, MS Visio, MS Project, MS SharePoint.

**Databases**: Teradata 14.10/14/13, Oracle-11g/10g/9i, OAC, MS Redshift, MS SQL Server-2005, 2008, DB2, MS Access, GCP, Snowflake.

**Platforms:** Windows 2012 R2/7/8/2003/NT, MS Server 2008 R2, Mac OS, DOS, UNIX, Web Sphere, Apache/Tomcat.

**Project Experience:**

 **Client: Maryland Health Benefit Exchange, Baltimore, MD** **Sep’22 - Present**

**Role: Business Intelligence Lead**

* Maintained different levels of **Data Security in Power BI** while granting access to data and assigning row-level security (RLS) when needed.
* Developed and maintained multiple **Power BI dashboards** in Power BI mobile and Power BI web.
* Created paginated reports using **Power BI Report Builder** for both on-premises and cloud data sources.
* Migrated Reports and Dashboards from Cognos Analytics to Power BI.
* Utilized **Power BI (Power View) to create various analytical dashboards** that depict critical **KPIs** such as legal case matters, billing hours, and case proceedings along with slicers and dicers enabling end-users to make filters.
* Extensively worked on **POWER QUERY Editor and Data modeling** in Power BI
* Installed and configured **Enterprise gateway** and Personal gateway in Power BI service.
* Implemented version control for Power BI files using tools like **Git,** ensuring a systematic approach to changes and updates.
* Demonstrated proficiency in **integrating OAC/Power BI** dataflows and applying ETL (Extract, Transform, Load) techniques at scale, ensuring seamless data integration across various sources.
* Functional Lead role in defining the dashboard requirements and providing the best **practices/approaches to perform ETL** and publish data to the reports/dashboard.
* Designed and implemented data mapping strategies to align Cognos data models with Power BI architecture.
* Configured incremental data refresh in Power BI for large datasets, reducing load times and enhancing data accuracy for time-sensitive business reporting.
* Optimized tabular cube processing times and query performance within **SSAS/AAS** by implementing partitioning, aggregations, and calculated columns to support high demand reporting environments
* Created organized, **customized analysis and visualization projects** and dashboards to present executive leadership.
* Acted as a subject matter expert for **OAC and Power BI** platforms, staying updated with the latest features and advancements to recommend best practices and optimize analytics workflows.
* Building **data models out of Teradata** and importing them to Tableau for customer's ready-to-use reports and dashboards for leadership.
* Developed and optimized complex SSAS/AAS tabular models, enabling efficient data processing and analytics for large-scale business intelligence applications
* Successfully implemented Power BI reports by integrating data from diverse sources, including on-premises data servers, cloud services, and various file formats.
* Optimized dashboards for **efficiency, managing data extracts,** and improving load times.
* Employed Power Query to transform raw data into analyzable formats, including advanced cleaning, merging, and reshaping to ensure quality and consistency across all Power BI reports.
* Proficient in integrating **Tableau visualizations seamlessly into Angular applications**, leveraging APIs and embedding techniques for a cohesive user experience.
* Enhanced user interface and experience by integrating Tableau dashboards into Angular applications, **focusing on design consistency, responsiveness**, and user-friendly interactions.
* Created crosstabs for displaying underlying **data based on various graphs and charts** for **future data analysis**.
* Created and Documented **Standard Operating Procedures (SOP)** for enterprise monitoring.
* Support ad-hoc requests; perform **deep-dive analysis** to identify areas of concern and **debugging** of data inaccuracies.

**Project Experience:**

**Client: Optum Health, Chicago, IL May ’20 - Aug ‘ 22**

**Role: Business Intelligence Lead**

* Generated ad-hoc reports in **Excel Power Pivot and shared them using POWER BI** to the decision makers for strategic planning.
* As a Part of Power BI Administration, configured Usage metrics, users, Audit logs, Power BI Apps settings, **Power BI** premium and Premium Capacity settings.
* Provided governance and technical expertise for the use and operation of **clinical dashboards**.
* Designed and implemented robust **ETL processes** to consolidate and integrate diverse data sources into a unified data model.
* Implemented **relationships, calculated columns, and measures** to create a cohesive and efficient data structure.
* Designed and implemented ETL pipelines **in Azure Data Factory** to streamline data ingestion from multiple sources, enabling real-time data updates and synchronization with Azure Synapse Analytics.
* Integrated **Power BI reports** and dashboards with other Microsoft products like **SharePoint, Teams, and Excel for seamless collaboration**.
* Experienced in **EMR both in an outpatient** and inpatient setting.
* Utilized Azure services to optimize data storage, processing, and retrieval for enhanced Power BI performance.
* Created and processed numerous masking rules to protect sensitive PHI, PII data.
* Collaborated with cross-functional teams to gather requirements, design data models, and develop **data pipelines using Oracle Analytics Cloud (OAC)** and Power BI dataflows, resulting in tailored solutions that meet client needs.
* Utilized Google Cloud Platform (GCP) products such as Cloud Data Studio and Cloud SQL in conjunction with **Google Looker Studio** to enhance data visualization capabilities and optimize performance in government health insurance analytics environments.
* Providing technical and analytical support Ad-hoc reporting in responding to specialized report requests requiring higher-level data analysis and data management services.
* Good Understanding of **SOAP, webservices XML and JSON.**
* Integrated Azure Data Lake as a centralized repository for structured and unstructured data, enabling seamless data retrieval and analysis in Power BI for cross-departmental insights.
* Used query editor in Power BI for Data cleaning, Data manipulating Dataset using transformations like merge, append, group by, pivot, and unpivot.
* Designed and developed **ETL jobs to extract data** from Salesforce replica and load it in DataMart in Redshift.
* Experience with Azure transformation projects and Azure architecture decision-making Architect and implementing ETL and data movement solutions using **Azure Data Factory (ADF).**
* Configured and maintained Report Manager and Report Server for **SSRS**

# Created Batch scripts which will load Tables into Teradata scheduled them using Control M and created batch scripts for adding users into Tableau.

* Used Role level security in Power BI report and assigned RLS\ Object level security for executive groups.
* Implemented Power BI gateway from different source to matching analysis criteria and further modeling for Power Pivot and Power View.
* Extensively used Performance analyzer and optimized Power BI reports and made changes accordingly.
* Experienced in setup workflow using Power Automate to Provide auto approval and status update features based on predefined criteria.
* Design and develop data warehouse projects and **data marts, model** and create Power BI projects.
* Designed SSIS Packages to extract, transfer, load (ETL) existing data into SQL Server from different environments for the SSAS cubes.
* Experienced in creating **tableau backup batch script in windows scheduler.**
* Installed and upgraded **Tableau server cluster environment** in the 2021.2 version.
* Created action filters, parameters, advanced table calculations and sets for preparing dashboards and worksheets in Tableau using Teradata as a Data Source.

**Project Experience:**

# Client: Cars.com, Chicago, IL Aug ’18 - May ‘20

**Role: Sr. Tableau Developer**

* Responsible for BI **development/Implementation, data architecture, data warehousing**, and reporting techniques

# Write complex SQL queries with multiple joins to automate/manipulate these extracts in Tableau.

* Created Tableau scorecards, dashboards using **scatter plots, geographical maps bar Charts Advanced KPI Charts**
* Performance tuning on **Tableau server and Tableau dashboards using utility tools like Palette, Tab Jolt and Log shark** for Performance monitoring and running load tests for Tableau server Health.
* Involved in creating data blending in case of merging different sources, used **Alteryx for Data blending for Tableau**.
* Created Alteryx macros in **Alteryx designer** for reporting and data manipulation.
* Strong expertise in **ETL process** design.
* Demonstrated expertise in handling complex data scenarios and ensuring seamless integration for comprehensive reporting.
* Executed **data migration in coordination with management and technical services** personnel.
* Worked on DAX functions to build visualizations, and developed power bi paginated reports using Power BI report builder.
* Create rich Power BI visualizations, DAX queries and work with Power Query, M code language for data integration and transformation as per the business requirement.
* Created Workspace and Apps in Power BI service and gave access to end users to Apps.

# Configure Power BI Report Server for SSRS, deployed and scheduled reports in Report Manager.

* Create paginated reports using Power BI Report Builder for on-premises and cloud data sources.
* Applied domain expertise in risk and control management processes to assess and mitigate compliance risks within Google Looker Studio, ensuring the integrity and reliability of analytical solutions and reports.
* Adroit in accessing and using PowerApps, Power Automate (MS Flow), and Power Bl.

# Experience building Power Automate (Flows), supporting multiple users on Power BI & Power Apps.

* Created **Row-level security (RLS)** and integrated with Power BI service.
* Maintained different levels of Data Security in Power BI while granting access to data and assigning Row Level Security (RLS) when needed.

**Project Experience:**

# Client: Ohio Department of Health, Columbus, OH Feb ’15 - Aug ‘18

**Role: Power BI Consultant**

* Delivered Bl reporting solutions in Power BI Reporting Services (SSRS), Tableau and MicroStrategy,
* Design and develop data warehouse projects and data marts, model and create Power BI projects, logical data marts, and table structures; and define attributes, dimensions, hierarchies, and metrics.
* Developed complex SQL queries using stored procedures, common table expressions (CTES), temporary tables to support Power BI and SSRS reports.
* Created reports from **HIPAA** database from audit reports and number of times accessed patient data.
* Collaborated with IT teams to design and deploy scalable ETL processes for data ingestion and transformation, enabling seamless integration of disparate data sources into **OAC/Power BI dataflows**.
* Validating Designing of outbound **CCDs using the HL7 version** 3.0 from clinical EMR system.

# Build advanced analytics in Power BI using Oracle, SQL Server and Teradata in Live and Import connections.

* Developed **custom reports and deployed** them on server using Power BI.
* Monitored, debugged, and tuned Power BI services to enhance performance, reliability, and user experience, including the troubleshooting of complex issues in reports, **cubes**, and semantic models.
* Implemented automated monitoring and alerting systems for Power BI service health, enabling proactive detection and resolution of performance or data refresh issues.
* Created Dashboards and visualizations from **HIPAA** auditing data by doing analysis with threshold values.

# Migrated existing self-service reports and ad-hoc reports for Tableau\ SSRS to Power BI.

* Created and deployed cubes in star and snowflake schema. Performed and worked with dimensions, measures, MDX queries.
* Designed Power BI data visualization utilizing cross tabs, maps, scatter plots, pie, bar and density charts.
* Implementation and delivery of MSBI platform solutions to develop and deploy ETL, analytical, reporting on SQL Server 2008 using SSAS, SSIS, SSRS.
* Experience in Reporting Services, Power BI (Dashboard Reports), Crystal Reports, SSRS using MS SQL Server and in supporting services MDX technology of the analysis services.

**Project Experience:**

# Client:AgFirst, Columbia, SC Aug ’14 – Feb ‘15

**Role:Tableau Developer**

* Deep experience with the design and development of **Tableau visualization** solutions.
* Created extracts, published data sources to tableau server, refreshed extract in Tableau server from Tableau Desktop.
* Used groups, combine fields, calculated fields and aggregated fields and spotlighting to compare and analyze data in different perspectives.
* Worked on creating interactive, real-time dashboards using drilling downs and customizations.

# Published Workbooks and Dashboards to the Tableau server.

* Importing tables using Warehouse catalog and Creating Logical Tables
* Extensively used analytical features in Tableau like Statistical functions and calculations, trend lines, forecasting etc. in many tableau reports.

# EDUCATION:

Master’s in computer science, Valparaiso University, 2014.

B. Tech in Computer Science, JNTUK, 2012.