**Jaswin Phirangi** 

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**Sr. Power BI Developer/ Sr. Business Intelligence Developer**

**PROFESSIONAL SUMMARY**

* 7+ years of experience in Business Intelligence, Data Engineering, Data Analytics, Data Reporting, Data Mining, Process Improvement, Process Automation, Business Development, Data Integration, Development and Implementation as a Sr. BI Developer /Report Developer and Data Analyst
* Extensive experience in Azure Cloud, Azure Data Lake Storage, Azure Data Factory, Azure Analytical Services, Azure Blob Storage, Azure Analysis Services, Azure Synapse, Apache Spark, Python, Databricks
* Strong experience in Software Development Life Cycle (SDLC) including Requirements Analysis, Design Specification and Testing as per Cycle in both Waterfall and Agile methodologies
* Extensive experience in PowerBI Desktop, PowerBI Service, PowerBI Pro, PowerBI Premium
* Skilled in PowerBI Desktop versions for data visualization, Reporting and Analysis. Developed reports, dashboards using PowerBI for quick reviews to be presented to Business and IT users
* Performed data modelling using Power Query in Power BI
* Good knowledge in M query language to process data in Power BI Editor
* Experienced in installing & configuring gateways in Power BI Service
* implemented Row-Level Security in Power BI. Additionally, worked on Power BI licensing & admin portal
* Well versed in calculated columns, tables, & measures in Power BI desktop
* Good knowledge on all types of transformations available in Power BI query editor & DAX functions
* Experienced in creating paginated reports using PowerBI Report Builder, and in creating a Drill-through to paginated report from PowerBI report by using dynamic measures
* Experienced in creating & managing workspaces using PowerBI Admin Portal workspaces and Tenant Settings
* Experience in creating PowerApps and in embedding PowerBI reports into salesforce
* Extensively worked with Azure Blob Storage by loading data & connecting it to Power BI to create reports
* Refined complex data from multiple Azure sources like Azure SQL database, Azure HD Insights & Azure Blob Storage & used it to create effective dashboards in Power BI
* Extracted & transformed data from huge Azure Data lakes & used that data back in SSRS & Power BI to create wide variety of reports
* Strong experience in writing scripts using Python API, PySpark API and Spark API for analysing the data
* Extensively used Python Libraries PySpark, Pytest, Pymongo, cxOracle, Pandas, PyExcel , NumPy, Matplotlib
* Used Spark and Scala APIs to compare the performance of Spark with Hive and SQL, and Spark SQL to manipulate Data Frames in Scala
* Experienced in building Automation Regressing Scripts for validation of ETL process between multiple databases like Oracle, SQL Server, Hive, and Mongo DB using Python
* Proficient in SQL across several dialects (MySQL, PostgreSQL, Redshift, SQL Server, and Oracle)
* Experienced in designing star schema, Snowflake schema for Data Warehouse, ODS architecture
* Skilled in System Analysis, E-R/Dimensional Data Modelling, Database Design and implementing RDBMS
* Strong analytical and critical thinking skills and the ability to follow through with projects from inception to completion and ability to work effectively in cross-functional team environments, excellent communication, and people skills
* Worked on various programming languages using IDEs like Pycharm, Spyder, Jupyter Notebook environment, Eclipse, NetBeans, and IntelliJ, Putty, GIT
* Visualized data by creating charts and graphs (bar graphs, line charts, pie charts, tree maps, heat maps, box and whisker charts, word cloud, cross tabs, bubble charts, pareto charts, waterfall charts, bump charts, geographic maps, funnel charts, Bollinger charts) based on client’s needs

**SKILLS**

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| --- | --- |
| **Operating Systems** | Windows, Linux, Unix |
| **Languages** | Python, C++, DAX, UML, SQL Server, T-SQL, PL/SQL, Oracle DB, SQL profiler |
| **Data Warehousing & BI**  | SQL Server Business Intelligence Studio (SSIS, SSRS, SSAS, DTS), Power BI, PowerBI Service, PowerApps, PowerBI Premium, PowerBI Desktop, PowerBI Pro, Power BI Report Builder |
| **Database** | MS SQL Server 2017/2016/2014/2012/2008R2/2008, Oracle 10g/9i/8i, MYSQL, IBM DB2 and MongoDB |
| **Reporting Tools** | Power BI, SSRS, Excel, Qlikview and Tableau |
| **Web Services** | SOAP 1.2 and REST 2.0 |
| **Web Technologies** | HTML, XML, JavaScript, Shell Scripting, jQuery |
| **Methodologies** | Agile, waterfall and Scrum. |
| **Tools**  | Teradata, Jupyter, Eclipse 4.2, SAS, UML Rational Rose, Visio, MS Word, MS Excel, MS Access and MS Project |
| **Apache** | Spark, PySpark, Scala |
| **Cloud Environments** | Microsoft Flow / Power Automate, Azure, Databricks, AWS and Google Cloud |
| **Microsoft Azure** | Azure Data Factory (ADF), Azure Databricks, Azure Data Lake Storage (ADLS), Azure Data Lake Analytics (ADLA) |
| **Certifications** | **Microsoft Certified: Power BI Data Analyst (PL-300)****Azure Fundamentals (AZ-900)** |

**PROFESSIONAL EXPERIENCE**

**Senior Consultant: Sr. Power BI Developer/ Sr. Business Intelligence Developer**

**Ernst & Young, LLP. May 2022 to Present**

**Client 1 - Fannie Mae, Washington, D.C. Oct 2023 to Present**

**Sr. Power BI Developer**

**Responsibilities:**

* Worked together with business analysts, stakeholders, and development teams and other senior directors to report and review the documents for **Dashboard design** and Data requirement documents
* Responded to business report requests by following standard **SDLC** processes, from requirements gathering, design, QA testing, deployment, and support
* Developed a **data flow pipeline** to land and process the tables from SQL and Azure SQL databases
* Developed prototypes and **wireframes** to illustrate the **Power BI** Dashboard functionalities, facilitating effective communication between business stakeholders.
* Utilized python’s pandas Dataframes for effective data extraction, transformation, and loading (**ETL**) processes
* Integrated **Power BI** with diverse data sources, such as Azure, Excel, SharePoint, and SQL Server, ensuring a holistic view of organizational data for comprehensive analysis
* Wrote **DAX** and Power Query **M language** calculations independently as part of the Power BI Dashboard development
* Created calculated columns, measures, calculated tables and optimized **data models** using DAX, ensuring accuracy and efficiency
* Designed, developed and maintained dashboards with **Power BI** and generated complex reports including chars, summaries, and graphs to interpret the findings to the team and stakeholders
* Built metrics using calendar heatmaps (JIRA data) and dashboards on (HR data) using **Power BI**
* Created **KPIs** for HR data, calculated attrition rate in the organization
* Managed **User Roles** and Permissions in Power BI
* Implemented **Row-level security (RLS)** within Power BI to restrict data access for given users. Used filters to restrict data access at the row level, and defined filters within roles
* Optimized the **performance** of reports, profiled the report to identify bottlenecks optimised DAX formulas, improved data model design by excluding unnecessary relationships and optimised query performance by optimizing data source queries and applying query folding
* Experienced in creating **custom visuals** in Power BI using D3.js, R, and Python
* Visualized data by creating **charts and graphs** (bar graphs, line charts, pie charts, tree maps, heat maps, box and whisker charts, word cloud, cross tabs, bubble charts, pareto charts, waterfall charts, bump charts, geographic maps, funnel charts, Bollinger charts) based on client’s needs
* Conducted **in-depth analysis** of resource management data, identified key trends, patterns, and anomalies for the Chief technology Officer’s leadership team
* **Administered** Power BI Service, managing workspaces, access permissions, and sharing settings to facilitate collaboration and information dissemination.
* **Assisted end users** with problems installing the Power BI desktop, installing, and configuring the Personal and On-Premises gateway, connecting to data sources, and adding the different users
* Managed organization visuals and Embed Codes in Power BI Admin Portal.
* Created **Drill Down Reports & Drill Through Reports** with Power BI
* Experienced in setting up and managing Power BI Premium capacities using **Power BI Admin Portal** capacity
* Created and managed **workspaces** using Power BI Admin Portal workspaces and Tenant Settings
* Utilized **Power BI gateway** to keep dashboards and reports up to-date with on premise data sources.
* Created and managed Power BI data gateways using **Power Platform admin center**
* Created, maintained and updated **documentation** of the data model, data flow and field level mappings
* Provided **training and support** to the team members and end-users to foster a strong understanding of Power BI functionalities and best practices
* Implemented daily and monthly **scheduling** of jobs with Pre/Post conditions based on the requirement.
* Monitored the Daily, Weekly, Monthly jobs and provide support in case of **failures/issues**
* Prepared **test cases** for Unit Testing, System Integration Testing, Bug Fixing and UAT
* Maintained **source and target mappings**, transformation logic and processes to reflect the changing business environment over time
* Wrote **SQL** queries and implemented stored procedures, functions, packages, views, cursors and triggers
* Created **Pipelines** in Azure Data Factory using Linked Services, Datasets, Pipeline to Extract, Transform and load data from different sources like Azure SQL, Blob storage and Azure SQL Data warehouse
* Experienced in creating Event-based triggers in **Azure Data Factory**, and in setting up Self-hosted Integration runtime in Azure Data Factory to connect On-Premises **SQL Server**
* Created **data integration** and technical solutions for Azure Data Lake Analytics, Azure Data Lake Storage, Azure Data Factory, Azure SQL databases and Azure SQL Data Warehouse for providing analytics and reports for improving marketing strategies.
* Collaborated on Jupyter Notebooks using **Python**, facilitating team discussions and knowledge sharing through interactive and executable code documentation

**Environment:** MS SQL Server 2017/2016/2014, SQL Server Management Studio, Business intelligence development studio (BIDS), SQL Server Integration Services(SSIS), SQL Server Analysis Service(SSAS), Power BI Desktop, Service, PowerBI Pro, PowerBI Premium, PowerApps, PowerBI Report Builder, DAX, PowerBI Admin, PowerBI Mobile, Jupyter, T-SQL, Visual Studio 2017, Azure Data Lake Storage, Azure Data Lake Analytics, Azure Data Factory, U-SQL, Python, Apache Spark, Scala, Azure Databricks, MS Excel

**Client 2 – Hampshire Companies, Morristown, N.J. June 2023 to Sept 2023**

**Sr. MSBI Developer/ Sr. Power BI Developer /Azure Databricks/ Alteryx**

**Responsibilities:**

* Translated **business requirements** for data analysis, data sourcing and reporting solutions as per business requirement
* Developed **interactive dashboards** and reports using **Power BI**, connecting directly to **Alteryx** and **Databricks** outputs stored in **Azure Data Lake Storage,** for data visualization and business intelligence purposes
* Maintained and ingested large volumes of work force analytical data and customer data to **Azure Databricks** Database tables from storage accounts
* Developed end-to-end **data pipelines** utilizing **Alteryx** and **Databricks** to manage the extraction, transformation, and loading (**ETL**) processes for large-scale data sets within Azure cloud infrastructure
* Orchestrated data workflows using **Azure Data Factory**, integrating Alteryx and Databricks processes to automate batch and real-time data processing tasks for efficient data delivery
* Developed **paginated reports** for intended customers/executives using **Power BI**
* Built complex data model and **fine-tuned** existing data models to meet the **report** **performance** goals
* Designed and developed Tabular models with **Row Level Security (RLS)** and integrated that to Power pivots and Power Views using **Power BI**
* Created business critical **KPIs** metrics using **Power BI** representing aggregations in several ways - **hierarchically** and using custom groupings that the company will use to analyse performance
* Designed **Power BI** data visualization utilizing cross tabs, maps, scatter plots, pie, bar and density charts
* Implemented **data validation & data quality** checks within Power BI to ensure data accuracy
* Scheduled **Automatic refresh** and scheduling refresh in **Power BI service**
* Wrote complex **DAX** functions in Power BI
* Built custom apps using **Power Apps** as per the business needs
* Managed user access to **workspaces** in **Power BI**
* Created **Drill Down & Drill Through Reports** using Power BI
* Created calculated columns, and wrote calculations for Measures in **bi BI desktop** to show good data analysis techniques
* Provided continued maintenance and development of **bug fixes** for the existing and new **Power BI** Reports
* Developed Stored Procedures, Triggers, and SQL scripts for performing **automation** tasks
* Created Azure Data Storage accounts within the **Azure Data Factory** for storing the big data inside the cloud
* Configured Azure SQL database with Azure storage Explorer and with **SQL server**
* Created linked services to connect to **Azure Storage**, and on-premises SQL Server
* Designed and implemented database solutions in **Azure SQL Data Warehouse** and Azure SQL
* Performed a fine-tuning of Stored Procedures and **SQL** Queries and User Defined Functions
* Created SQL Server jobs and scheduled them to load data periodically using **SQL** server Agent
* Developed **ETL** Packages using SQL Server 2014 Integration services (SSIS) to populate data from different sources like flat files/CSV Files to the staging databases. The packages created included a variety of transformations like Look up, Aggregate, Derived column, Conditional split, Multicast, Execute SQL Task, Term Extraction, Data Conversion etc

**Environment:** PowerBI Desktop, PowerBI Service, Power BI Pro, Power BI Mobile, DAX, T-SQL, Azure Databricks, Azure Data Lake Storage, Azure Data Lake Analytics, Azure Data Factory, Visual Studio 2017, Microsoft Azure, MS Access, MS Excel, MS SQL Server 2017/2016, SQL Server Management Studio

**Client 3 - Edward Jones, St. louis , MO May 2022 to May 2023**

**Sr. BI Developer/ Sr. Power BI Developer**

**Responsibilities:**

* Organized meetings to gather **business requirements** from business users
* Tuned **ETL** code & reports to the optimum performance possible
* Maintained data integrity with the creation of constraints & **DML triggers**
* Created tables, stored procedures, views, indexes, Triggers, Constraint, temporary tables & user-defined data types & functions using **T-SQL**
* Designed & developed **ETL** jobs extracts to pull the data from multiple sources required for the **Visualizations**
* Created a multitude of reports using **Power BI desktop** with a variety of visuals such as charts, tables, slicers, gauges
* Wrote **DAX** expressions to create new **measures**, calculations per business requirements
* Integrated **custom visuals** based on business requirements in **Power BI Desktop**
* Utilized **Power BI gateways** to configure **data refresh** of Power BI data models
* Created complex measures, calculated columns, calculated tables using Data Analysis Expressions (**DAX**)
* Configured **parameters & functions** to extract data from Web APIs within **Power BI** reports
* Implemented **data blending,** groups, **calculated fields**, & aggregated fields to analyse data in **Power BI**
* Provided continued **maintenance** and development of **bug fixes** for the existing and new Power BI Reports
* Optimized reports with modifications to **embedded queries** and/or stored procedures
* Generated on-demand & scheduled reports with **SSRS** for business analyses & managerial decisions
* Utilized the **PBI interface** to organize reports, data sources, schedule report executions, & track report history
* Performed troubleshooting of **performance** **issues** that were associated with Power BI reports
* Conducted **JRD** meetings to gather business requirements from business users & SMEs
* Designed & optimized complex **stored procedures** to perform data profiling & auditing in the pre-staging database
* Formulated stored procedures to perform index maintenance & **data profiling** for loading data marts & generating report datasets
* Utilized **SSRS** **& Power BI** to amplify data visualizations with interactive sharing, collaboration, & data management
* Developed complex **SQL** queries using stored procedures, common table expressions (**CTEs**), temporary table to support **Power BI &** **SSRS** reports
* Created **Pipelines** in **Azure Data Factory (ADF)** using Linked Services/Datasets/Pipeline/ to Extract, Transform, and load data from different sources like Azure SQL, Blob storage, Azure SQL Data warehouse, write-back tool and backwards
* Developed **JSON** Scripts for deploying the Pipeline in Azure Data Factory (ADF) that process the data using the SQL Activity

**Environment:** Power BI, DAX, Power Query, SQL Server 2019, SSDT, SSAS, SSRS, T-SQL, MS Excel, SSMS, SQL Profiler, MS Azure

**One Call Care Management, Jacksonville, FL Jan 2017 to May 2022**

**Senior BI Report Developer/ SQL/ Power BI**

**Responsibilities:**

* Worked with **python** **packages** like Pandas, NumPy, Matplotlib, Plotly, etc. to extract and transform data to build **visualizations** & **scorecards** which were used by the sales team to analyze trends of customers
* Reported on internal operational **KPIs** and analyzed their **trends** by creating **Power BI** dashboards, which were reviewed monthly by the executive management to determine the monthly goals
* Designed and implemented A/B experiments in **Python** on marketing data to increase the customer acquisition rate by 20% and increase the monthly revenue by over 2%
* **Mentored** new hires by training them to use **python** in **reporting** and conducted **knowledge transfer sessions** to explain them the life cycle of various business units within the organization
* Translated **business and functional requirements** to technical specifications outlining key decisions and technical designs for multiple projects
* Identified the important data in the legacy systems to be migrated to **Oracle** by collaborating with cross-functional business stakeholders to gather business requirements
* Supported **Data Engineering** team by composing and implementing standard **SQL** queries in Oracle to support the **data pipelines** and deliver data in **EDW** as per the business requirements to enable faster and efficient migration of data
* Leveraged **SQL** **window functions** for temporal data analysis, providing insights into trends and patterns over specific time intervals
* Composed complex **T-SQL** queries, stored procedures, functions, triggers and views to provide structured data to business units by combining data from disparate data sources and importing data for use in **Power BI**
* Developed and maintained databases by composing **SQL/T-SQL queries** to support the backend of various web applications
* Experienced in **DBMS**, Data Profiling, Data Quality, Data Governance, and Data Analytics and processes aligned to data management
* Built **SQL** queries using **SQL Server Management Studio**, MySQL and Oracle Database to work on ad hoc reporting and maintain our team’s turn around **SLA** above 97%
* Designed **Database Models**, Entity Relationship diagrams using Toad data modeler
* Maintained the physical database by monitoring **Performance**, Integrity and Optimize SQL queries for maximum efficiency using SQL Profiler Index Tuning Wizard
* Involved in improving the **performance** of query by using Query Optimization Techniques
* Deployed database objects from **Development/Testing** environment to Production environment
* Implemented **Error Handling** in several existing Stored Procedures using Try Catch blocks
* Collaborated with C-Suite executives and cross-functional business/technical teams to identify and define important metrics; Built out the data and reporting infrastructure using **Power BI** **and** **SQL** to provide **real-time insights** into financial, operational and business **KPIs**
* Built customer **scorecards** using SQL and MS Excel inclusive of metrics like turnaround times, Quality ratio and call volumes, which helped the senior management to research the reasons for high turnaround
* Interpreted data to understand **KPI** failures and worked with cross-functional teams to remedy issues from coding enhancements to loading speed, increasing positive user feedback by 25%
* Studied **market trends** and user feedback, and extrapolated data in **Power BI** to understand customer needs, and presented key insights to management and stakeholders
* Involved in created stored procedures, views, and custom **SQL** queries to import data from SQL server to **Power BI**
* Converted business requirements into storytelling viz by developing views and dashboards in **Power BI Desktop** and published them to **Power BI Service**
* Built, published and customized interactive reports and **dashboards** using **Power BI**
* Created relationships, actions, data blending, filters, parameters, hierarchies, calculated fields, sorting, groupings, live connections, and in-memory in **Power BI**
* Created customized reports using various chart types like, text tables, bar, pie, tree maps, heat maps, line charts, pivot tables, combination charts in **Power BI**
* Visualized data by creating **charts and graphs** (bar graphs, line charts, pie charts, tree maps, heat maps, box and whisker charts, word cloud, cross tabs, bubble charts, pareto charts, waterfall charts, bump charts, geographic maps, funnel charts, Bollinger charts) based on client’s needs
* Worked extensively with **Advance analysis** Actions, Calculations, Parameters, Background images, Maps.
* Tested reports and uploaded **Power BI** dashboards on to **Power BI Service** and provided **production support** for Power BI users
* Created **mockup dashboards** and presented to the higher-level end users to have them a look and feel of the dashboards
* Built groups, hierarchies, sets to create detail level summary reports and dashboard using **KPIs**
* Prepared **test cases** and was involved in Unit Testing, System Integration Testing, Bug Fixing and UAT
* Worked on **Power Query editor** to get data ready for data analysis
* Worked on defining joins/relationships, unions and **data blending**
* Created Views and Materialized Views according to the business needs in Snowflake using **SnowSQL**
* Implemented **dynamic data masking** in Snowflake to ensure the security and confidentiality of sensitive information
* Integrated **DBT** (Data Build Tool) with Snowflake for efficient management of SQL statements and data transformations
* Developed **ELT** (Extract, Load, Transform) **data pipeline** using **DBT** and **Snowflake** for the migration of sales data, showcasing a hands-on approach to data engineering
* Using **SSRS** to design and deploy parameterized reports in tabular and matrix form
* Created weekly and monthly reports as per requirement using **SSRS** and Scheduled Reports to be delivered to User on demand Basis or run on daily, weekly and monthly basis in SSRS report Manager
* Involved in handling parameterized reports and drilldown reports in **SSRS**
* Used **SSRS** to design and deploy parameterized reports in tabular and matrix form which are executed and delivered to end users without any manual intervention which saved 10-man hours per month
* Tracked and analyzed customer engagement around the world using **Google Analytics** to help make vital business decisions about customer market segments
* Worked in a team of 3 to build Excel based **data model** and provided dashboards using pivot tables, slicers and charts which were helpful in analyzing the head count of new FTEs required
* Mined the data using **SPSS, STATA and XLMiner** and used Multiple Linear Regression to determine the product cost, and created customer groups using K-nearest neighbors, clustering and segmentation techniques
* Converted repetitive **VBA** scripts based on MS Excel to run them faster in Python which reduced the time spent on the reports by 3 hours per week
* Experienced with **MS Office,** including MS Excel, MS Word, and MS PowerPoint
* **Automated report generation** process by using Macros in excel, decreasing reporting and coordination time by 2 hours
* Met stakeholders/users daily to understand the existing manual process and carrying out **automation proposals**
* Prepared Business Requirements documents, High level and Low Level **Design documents**
* Preparing **Business specification documents**, procuring approvals/funding and converting them into technical specifications
* Interacted with Business Analysts and Data Modelers to define mapping documents and design process for various sources and targets, and was involved in Database/application architecture and **modelling**
* Maintained **source and target mappings**, transformation logic and processes to reflect the changing business environment over time

**Environment:** MS SQL Server 2017/2016/2014, SQL Server Management Studio, Business intelligence development studio (BIDS), SQL Server Integration Services(SSIS), SQL Server Analysis Service(SSAS), Power BI Desktop, PowerBI Service, PowerBI Pro, PowerBI Premium, PowerApps, PowerBI Report Builder, DAX, PowerBI Admin, PowerBI Mobile, Jupyter, T-SQL, Visual Studio 2017, Azure Data Lake Storage, Azure Data Lake Analytics, Azure Data Factory, U-SQL, Python, MS Excel

**EDUCATION**

**University of Florida – Warrington College of Business**

**(Jan 2017) GAINESVILLE, FLORIDA**

**Master of Science in Information Systems & Operations Management (ISOM) (CGPA – 3.69)**

* Courses: Business programming, Data analytics, SDLC, Project management, Business Intelligence, Database Systems
* Member of Association for Information Systems

**National Institute of Technology**

**(April 2015)                                                                               WARANGAL, INDIA**

**Bachelor of Technology in Biotechnology**

* Courses: Computer programming, Mathematic Modelling, Calculus, Biostatistics
* General Secretary of Technical Association of Biotechnology (TAB) & a member of Class Review Committee