**Jaswin Phirangi**

(904) 648-7099 | phirangijaswin@live.com

**Sr. Business Intelligence Developer**

Business Intelligence Engineering professional with over 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, with a solid foundational skills and proven tracks of implementation in a variety of data platforms. Initiative-taker with a strong adherence to personal accountability in both individual and team scenarios

**PROFESSIONAL SUMMARY**

* Over 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
* Strong experience in Software Development Life Cycle (SDLC) including Requirements Analysis, Design Specification and Testing as per Cycle in both Waterfall and Agile methodologies
* Strong experience in writing scripts using Python API, PySpark API and Spark API for analysing the data
* Excellent programming skills with experience in Java, C, SQL, and Python Programming
* Extensively used Python Libraries PySpark, Pytest, Pymongo, cxOracle, Pandas, PyExcel , NumPy, Matplotlib and Plotly
* First-hand use of Spark and Scala APIs to compare the performance of Spark with Hive and SQL, and Spark SQL to manipulate Data Frames in Scala
* Expertise in Python and Scala, user-defined functions (UDF) for Hive and Pig using Python
* Skilled in PowerBI Desktop versions for data visualization, Reporting and Analysis. Developed reports, dashboards using PowerBI and Tableau for quick reviews to be presented to Business and IT users
* Experience in working with NoSQL databases like HBase and Cassandra
* Experienced in creating shell scripts to push data loads from various sources from the edge nodes onto the HDFS
* Experience in Data Analysis, Data Profiling, Data Integration, Migration, Data governance and Metadata Management, Master Data Management, Configuration Management and designing complex Mappings and have expertise in performance tuning and slowly changing Dimension Tables and Fact tables
* Experienced in building Automation Regressing Scripts for validation of ETL process between multiple databases like Oracle, SQL Server, Hive, and Mongo DB using Python
* Proficiency in SQL across several dialects (MySQL, PostgreSQL, Redshift, SQL Server, and Oracle)
* Experience in designing star schema, Snowflake schema for Data Warehouse, ODS architecture
* Very good exposure and rich experience with ETL tools like Matillion, Alteryx , Datastage and DBT
* Skilled in System Analysis, E-R/Dimensional Data Modelling, Database Design and implementing RDBMS specific features
* 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
* Experience in using Kafka and Kafka brokers to initiate spark context and processing live streaming
* Developed custom Kafka producer and consumer for different publishing and subscribing to Kafka topics
* Good working experience on Spark (spark streaming, spark SQL) with Scala and Kafka. Worked on reading multiple data formats on HDFS using Scala. Created Data frames by loading data from Hive tables and created prep data and stored in AWS S3
* Worked on various programming languages using IDEs like Pycharm, Spyder, Jupyter Notebook environment, Eclipse, NetBeans, and IntelliJ, Putty, GIT

**PROFESSIONAL EXPERIENCE**

**Senior BI Developer**

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

**Internal Initiative (Ongoing effort)**

* Utilized Alteryx's data preparation tools to clean, validate, and standardize raw data from multiple sources, ensuring consistency and accuracy for downstream analysis.
* Spearheaded the automation of numerous Excel reports using Alteryx, replacing manual processes and saving hours of manual work each month.
* Designed and developed Alteryx workflows to extract data from various sources, transform it according to predefined business rules, and populate Excel templates with the processed data.
* Implemented scheduling and automation features within Alteryx Server to execute report generation workflows at scheduled intervals, ensuring timely delivery of reports without manual intervention.
* Customized Alteryx workflows to dynamically adjust report layouts and formats based on user-defined parameters, providing flexibility and customization options for stakeholders.
* Integrated Alteryx workflows with email delivery systems to automatically distribute generated Excel reports to relevant recipients, streamlining communication and improving information flow across the organization.
* Collaborated with business stakeholders to identify report automation opportunities and gather requirements for customizing Alteryx workflows to meet specific reporting needs.
* Designed Alteryx workflows to automate repetitive data processing tasks, reducing manual effort and increasing productivity for data analysts and business users.
* Integrated Alteryx workflows with external systems and applications using APIs and web services, enabling seamless data exchange and integration with third-party tools and platforms.
* Implemented error handling and exception management strategies within Alteryx workflows to ensure robustness and reliability in handling unexpected data issues and processing errors.
* Developed custom macros and reusable workflows in Alteryx to encapsulate common data processing logic and promote code reusability and maintainability across projects.
* Collaborated with cross-functional teams to gather requirements, design, and implement Alteryx workflows tailored to specific business needs and use cases.

**Senior BI Developer**

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

**Responsibilities:**

* Worked together with business analysts, stakeholders, and development teams and other senior managers to report and review the documents for Dashboard design and Data requirement documents
* Collaborated with cross-functional teams, including Finance, Marketing, and Operations, to understand and gather business requirements and ensured alignment with business objectives
* Worked closely with BI developers to integrate data from various sources ensuring data quality and consistency
* Responded to business report requests by following standard SDLC processes, from requirements gathering, design, QA testing, deployment, and support
* Participated in data strategy and roadmap exercises, business intelligence/data warehouse product selection, deployment, and implementation
* Performed hands-on design, development, configuration and testing of BI reports and dashboards for new and existing business metrics
* Developed and optimized stored procedures to enhance data processing capabilities
* Developed a data flow pipeline to land and process the tables from SQL and Azure SQL databases
* Developed prototypes and wireframes to illustrate the PowerBI Dashboard functionalities, facilitating effective communication between business stakeholders.
* Built metrics using calendar heatmaps on JIRA data and dashboards on and HR data
* Performed gap analysis to identify disparities in current data gaps, proposing solutions to bridge the gaps and meet the Dashboard objectives.
* 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
* Extremely proficient with DAX and Power Query M language, Created calculated columns, measures,, calculated tables and optimized data models using DAX, ensuring accuracy and efficiency
* Wrote DAX calculations independently as part of the PowerBI Dashboard development
* Performed Data Visualization: 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
* Conducted in-depth analysis of resource management data, identified key trends, patterns, and anomalies for the Chief technology Officer’s leadership team
* Designed, developed, and maintained scalable and efficient BI solutions that enable stakeholders to make informed decisions related to revenue management
* 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
* 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
* Conducted regular system audits to ensure data integrity, accuracy, and compliance with established policies and procedures of the business
* Created, maintained and updated documentation of the data model, data flow and field level mappings
* Created comprehensive documentation for data models, technical specifications, and development processes
* 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
* Created and maintained documentation of the data model, data flow, and field level mappings
* Maintained source and target mappings, transformation logic and processes to reflect the changing business environment over time
* Validated already developed python scripts and re-deployed them by fixing the bugs
* Wrote SQL queries and implemented stored procedures, functions, packages, views, cursors and triggers
* Utilized Python for web scraping to gather market insights from various online sources, providing valuable data for market trend analysis.
* Developed custom Python libraries for specific data analysis tasks, showcasing a deep understanding of domain-specific requirements and programming flexibility.
* Collaborated on Jupyter Notebooks using Python, facilitating team discussions and knowledge sharing through interactive and executable code documentation.

**Data Engineer**

**Client 2 – Hampshire Companies, Morristown, N.J. Dec 2022 to Oct 2023**

**Responsibilities:**

* Ingested various project’s data from disparate source systems into ADLS Gen2 using ADF.
* Responsible for maintaining and ingesting large volumes of work force analytical data and customer data to Azure Databricks Database tables from storage accounts.
* Implemented various data validations, data quality checks by maintained the privacy and security of the data.
* Hands on coding - Wrote and tested the code for the Ingest automation process - Full and Incremental Loads.
* 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.
* Implemented Alteryx workflows to pre-process and standardize data before ingestion into Azure Blob Storage or Azure Data Lake Storage, ensuring data quality and consistency throughout the pipeline.
* Collaborated cross-functionally to design and implement scalable data solutions within the Azure environment, leveraging Databricks for distributed data processing and machine learning tasks.
* 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.
* Utilized Alteryx capabilities to ingest data from various Azure services, including Azure SQL Database and Azure Cosmos DB, enabling seamless integration across the Azure ecosystem.
* Implemented data validation checks within Alteryx and Databricks workflows to ensure data accuracy
* Leveraged Azure Synapse Analytics for high-performance querying and analysis of structured and unstructured data processed by Alteryx and Databricks workflows.
* Maintained data catalogs and metadata repositories within Azure Data Catalog, documenting data lineage and dependencies to support data governance initiatives.
* Collaborated with Azure DevOps teams to implement CI/CD pipelines for Alteryx and Databricks workflows, ensuring efficient deployment and version control across environments.
* Utilized Azure Monitor and Azure Log Analytics for proactive monitoring and troubleshooting of Alteryx, Databricks, and Azure resources to optimize performance and reliability.
* 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.
* Designed the solution and developed the program for data ingestion using - Pyspark, Spark-SQL, Linux shell script & Python.
* Developed ETL pipelines using Spark and Hive for performing various business specific transformations.
* Developed the delta loads for the data pipeline to Extract, Transform and Load all the Datasets with incremental loads of data.
* Built data applications and automated the pipelines in Spark for bulk loads as well as Incremental Loads of various Datasets.
* Wrote spark applications to perform operations like data inspection, cleaning, load and transforms the large sets of structured and semi-structured data.
* Developed Spark with PySpark and Spark-SQL for testing and processing of data.
* Wrote the transformed data in Azure Databricks to snowflake and as well the storage account and container depending on the business requirement.
* Used python for the automation of excel reports which included extracting the data from multiple sources and integrating it into one place and also pre-processed it to make it ready for data visualizations
* Worked on data that was a combination of structured and unstructured data and automated the cleaning using python
* Automated API integration processes using Python scripts, improving the efficiency of data retrieval and integration from external sources.

**Senior Systems Analyst**

**Client 3 - Edward Jones, St. louis , MO Aug 2022 to Dec 2022**

**Responsibilities:**

* Initiated and conducted meetings with stakeholders to gather insights and requirements for the process, ensuring a comprehensive understanding of business needs
* Collaborated with stakeholders to analyze requirements and expectations, facilitating effective translation of business processes into actionable process flow diagrams
* processes based on stakeholder input
* Engaged with senior architects to review the initial process flow diagrams, incorporating their expertise and insights to enhance the accuracy and efficiency of the depicted processes
* Utilized JIRA for efficient project tracking, logging progress milestones from stakeholder meetings through senior architect reviews, ensuring streamlined communication and transparent timelines
* Conducted in-depth analysis of mainframe code, mapping data flow through critical points, including Salesforce, DB2, and MoneyGuide Pro, creating comprehensive data flow diagrams for enhanced visualization and understanding of complex data pathways
* Thoroughly documented the mainframe code analysis and data flow diagrams, ensuring clarity and accessibility for future reference by the client
* Authored a concise Business Requirements Document (BRD) encapsulating insights from mainframe code analysis and data flow diagrams for streamlined client reference
* Coordinated globally with overseas teams for daily status reports and highlighted the progress and issues to the Release Management
* Worked on MS Excel, MS Visio and MS Projects in order to conduct a detailed migration analysis of various data points and presenting the findings in form of PowerPoint Presentations or Research reports during executive level meetings
* Documented Business Requirement Document (BRD), Technical Requirement Specification (TRS) and Functional Requirement Specification (FRS) for the integration of IBM BPM tool
* Designed Business Process Models using UML methodology (Process Flows, Activity diagrams, Sequence diagrams and Collaboration diagrams on MS Visio and IBM Blueworks Live)
* Performed GAP analysis of business rules, business and system process flows, user administration, and requirements of the data migration from Salesforce to Money Guide Pro
* Participated in User Acceptance Testing (UAT) as well as helped in developing QA Test Plans for Functional Integration Testing of data migration
* Captured the bugs during UAT testing of the data migration from salesforce to MoneyGuide Pro and communicated to the development team and increased the efficiency by 75%
* Designed and performed the data mapping for Enhanced Due Diligence (EDD) and Further Due Diligence (FDD)
* Experienced in various SDLC methodologies like Waterfall, Agile, and Scrum
* Led weekly meetings with technical teams to discuss outstanding technical issues and deadlines that had to be met and produced Functional Specifications

**Senior BI Report Developer**

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

**Responsibilities:**

* Worked with python packages like Pandas, NumPy, Matplotlib, Plotly, etc. to extract and transform data to build visualizations and 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 on a monthly basis 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 6 disparate data sources and importing data for use in Power BI & Tableau
* 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
* Worked with Senior Analysts and Operations Managers to test the reporting
* 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%
* Used data to analyze multiple stages in business process to determine the areas having high expense impact and presented it to the management for review
* Studied market trends and user feedback, and extrapolated data in Tableau to understand customer needs, and presented key insights to management and stakeholders
* 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 on a daily basis 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
* Involved in created stored procedures, views, and custom SQL queries to import data from sql server to Tableau.
* Converted business requirements into storytelling viz by developing views and dashboards in Tableau Desktop and published them to Tableau Server
* Built, published and customized interactive reports and dashboards using Tableau server
* Created relationships, actions, data blending, filters, parameters, hierarchies, calculated fields, sorting, groupings, live connections, and in-memory in both Tableau and excel.
* Created customized reports using various chart types like, text tables, bar, pie, tree maps, heat maps, line charts, pivot tables, combination charts in excel and Tableau
* 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 mapsfunnel charts, bollinger charts) based on client’s need.
* Worked extensively with Advance analysis Actions, Calculations, Parameters, Background images, Maps.
* Tested reports and uploaded Tableau dashboards on to server and provided production support for Tableau 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 KPI's
* Worked extensively with advance analysis actions, calculations, parameters, background images, maps
* Prepared test cases and was involved in Unit Testing, System Integration Testing, Bug Fixing and UAT
* Worked on Tableau Prep to get data ready for data analysis
* Worked on defining joins/relationships, unions and data blending
* Maintained source and target mappings, transformation logic and processes to reflect the changing business environment over time

**TECHNICAL SKILLSET**

**Programming Languages:** Python, R, C++, Java, C#, SQL, VBA, DAX, PowerShell, jQuery, JavaScript, HTML, CSS, XML

**Databases:** SQL Server, MySQL, T-SQL, Oracle DB, MySQL, PostgreSQL, Snowflake, MS Access, BigQuery

**Tools:** Microsoft Azure, Databricks, Microsoft PowerBi, Tableau, Alteryx, Looker, JIRA, SAP HANA, SSRS, Ab Initio, SAS Enterprise Miner, Excel, Access, IBM SPSS, XLMiner, STATA, Visio, UML, MS Office Suite (MS PowerPoint, MS Excel), SSIS, SSRS, SSAS

**Certifications**: Azure Fundamentals, Lynda certified in SQL, Java, Tableau, and SPSS

**Analytical skills:**  Dashboard Building, Data Modelling, Wireframing, Customer Experience Strategy, SWOT Analysis, A/B Testing, Market Research, Storytelling

**Python Packages:** GGPlot2, NumPy, Pandas, Matplotlib, Seaborn, NLTK, Spacy, SciPy, Scikit-Learn

**Machine Learning Algorithms:** Decision Tree, Random Forest, Linear and Logistic Regression, Clustering, Neural Network, KNN, CNN

**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