**Adriano da Silva**

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**SUMMARY**

IT professional experienced in architecting, developing, migrating, and integrating on-premise and cloud environments for end-to-end data pipelines in machine learning and analytics solutions, leveraging data lakes, delta lakehouse, data warehouse, reporting solutions. Speaks and writes English, Portuguese and Spanish.

**PROFESSIONAL EXPERIENCE**

**Bright International Corporation, Fort Lauderdale, FL**

**Azure Data Architect Consultant May 2020 – present**

Advised business leaders in realizing their vision and collaborated with technical teams to architect modern data and AI solutions that migrate on-premise systems and integrate with new or existing cloud data services into a leading data platform. The ecosystem can support diverse streaming and batch workloads, including machine learning, advanced analytics systems, and ad-hoc queries.

* Successfully architected Cloud Data and AI platform using effective and scalable storage, ingestion, and processing solutions to ensure that the necessary data quality, security, and integrity are present to produce accurate analytical solutions and available for machine learning models and applications.
* Collaborated with the architectural and technical direction in the creation of data warehouse and Data Lake solutions; including Data model design and refinement. In addition, to support for data processing using Azure Data Factory (ADF), Azure Databricks used to populate Azure Synapse Analytics data warehouse (f.k.a. Azure SQL DW) and Delta Lake in Azure Data Lake Storage (ADLS) Gen2.
* Directed AI and analytics team in implementing Azure Machine Learning in their ecosystem. Assisted with model creation, deployment, and integration with applications. Devised data strategies that streamlined the data pipeline processes where all together resulted in the acceleration of their end-to-end machine learning lifecycle.
* Partnered with the technical and key business SMEs from across the company to bring new self-service data products across the company integrating Azure Synapse Analytics and Power BI to deliver insights.
* Applied decision-making framework that takes into consideration three key drivers; data storage options, type of data being ingested, and data processing rules and requirements to simplify the process of identifying the necessary technologies and tools to be used in the solution. This approach is coupled with an understanding of the business vision and needs.

**AutoNation, Fort Lauderdale, FL Apr. 2018 – Apr. 2020**

**BI Developer/Data Engineer Consultant**

Collaborated with architects, guided technical teams and business users on implementing end-to-end BI and analytics solutions. Successfully engaged with business leaders to become an advisor and SME (Subject Matter Expert). Experienced with full life-cycle development process - requirements gathering, analysis, design, development, testing, implementation, and support - always following procedures and performing above the customer's strict standards. Delivered solutions using the Scrum implementation of the agile methodology.

* Spearheaded technical efforts related to data pipelines, ETL (Extract, Transform and Load) and ELT (Extract, Load and Transform) processes between hybrid cloud (Azure & AWS) and on-premise sources and destinations. Performed business process review and detailed data and business requirement analysis to ensure projects have proper impact and adoption.
* Built scalable data integration solutions based on frameworks using SSIS (SQL Server Integration Services), for ETL and ELT tasks. Created monitoring, exception, and error Power BI and SSRS report in support of the solution in an effort to quickly identify and address data exceptions and problems.
* Involved in complex and dynamic data warehouse initiatives involving redesign, data loading, and reloading efforts to improve the slicing and dicing of data in a manner that provides more meaningful, insights that are more visually intuitive to users. The underlying code (stored procedures, views, etc) was developed in a flexible manner to allow changes without major future redesign.
* Implemented best practices to ensure that coding standards, guidelines and processes were aligned with customer’s existing architecture and deliverables; including code reviews, documentation, and testing (Unit, Integration, System, and Acceptance).
* Defined coding and documentation standards in a way to make it simpler for QA and support teams to test and support. Established communication channels with the business.

**Comcast – Miramar, FL Apr. 2016 – Mar. 2018**

**BI/DW & Analytics Consultant**

Teamed up with leaders and PMs in transforming a BI & Analytics vision into reality. Provided technical leadership by partnering up with architects in the restructure of a BI/DW ecosystem. Guided the development and maintenance of data architecture and data management standards; providing hands-on guidance to data engineers in best practices for data structures, data orchestration, and ETL. These solutions were successfully implemented and used across the enterprise on time and on budget.

* Provided full database application support from design to production. Teamed up with analysts to implement and fine-tune specifications by ensuring that all database constraints are satisfied and performed impact analysis of and tested changes. Troubleshot and resolved business logic issues within SSIS packages, stored procedures, and other database objects.
* Performed code refactoring on database objects (stored procedures, views, functions) used by the ETL in the data transformation and cleansing; improving consistency, completeness, and accuracy of the data loaded into the data warehouse, as well as, a shortened ETL run time.
* Led data source analysis and developed data extraction, data ingestion, and data integration standards, implemented in SSIS and, T-SQL based ETL data pipelines. It retrieved data from an array of sources, applied transformations based on business rules, and populated fact and dimension tables in the OLAP database used by SSAS cubes. The data workflow includes logging, traceability, error checking, and handling; along with a portal for tracking, monitoring with user-based data validation and correction.
* Authored requirements, technical designs, and functional specifications along with test cases. These work products were templates and used for processes applied to all stages of development and data processes; resulting in high accuracy levels. These documentations have been used as guidelines in subsequent implementations by other groups.

**Graftan Associates – Atlanta, GA 2009 - 2019**

**Data Solutions Architect Consultant**

Contracted to establish Centers of Excellence in machine learning and advanced analytics; by directing all aspects of on-premise and cloud enterprise solutions. Applied a strategy of implementing projects and systems by interfacing with executives to understand and refine their vision, management to gather and consolidate business processes and user requirements. Partnered with IT and business units to bring a vision into reality.

* Provided technical guidance and hands-on support in the architecture and creation of Data Lakehouse, Data Lakes, machine learning models, and data warehouses. Put into effect dashboards, scorecards, KPIs, and analytical reports sourced by cloud and on-premise data warehouses (Azure Synapse/Azure SQL DW) and SQL Server Analysis Services (SSAS)) and visualization solutions using Power BI, SSRS, and Tableau.
* Implemented scalable and robust end-to-end pipelines for near real-time analytics, ELT and ETL Frameworks using Azure Data Factory, Apache Spark, Databricks, and SSIS to extract and process batch and streaming data from diverse data sources; transforming it by applying complex rules using tasks and components, stored procedures, T-SQL to load Azure Data Lake Storage Gen2 (ADLS Gen2), blob storage, data warehouse Fact, and SCD tables, and to support data migration and integration initiatives. Standardized controls for restart, error handling, logging, and configuration for better support.
* Responsible for the development of complex analytical reports and sub-reports, drill down and drill through nested data regions capabilities along with parameters, expressions, and dynamic security. Created, tested, debugged, and optimized SQL, T-SQL code, and database objects - stored procedures, TVFs, indexes, etc.
* Led and trained onshore and offshore team members on the use of data integration and orchestration tools (Azure Data Factory, SQL Server Integration Services - SSIS) to build data pipeline solutions. Assisted in the troubleshooting and support of components and package design and execution.
* Directed process analysis and requirements gathering sessions with management, and end-users to understand their business objectives, processes, and data needs; laying the foundation to create project plans, workflows, technical and functional requirements. Also guided the delivery of Data Migration and Data Integration between Salesforce and Microsoft CRM; as well as, the creation and integration of Credit Risk and Pricing Model application systems.

**Ebon Group, Ft. Lauderdale, FL 2004 – 2008**

**BI Developer / DBA**

Contracted to lead reporting systems and database migrations and to define database management standards, including logical and physical database design, query optimization; in addition to leading client-server application upgrade efforts.

* Spearheaded data warehouse ETL processes supported by SSIS packages, stored procedures, and T-SQL for data extractions, transformations, and loading of OLAP and OLTP databases; in addition to, data feeds and file exports. Used cross-validation rules to ensure data accuracy and provided detailed documentation outlining data mappings and transformations along with sources of each report and its operational details.
* Developed interactive drill-down, drill-through and chart SSRS reports; displaying data from OLTP and OLAP cubes and databases with Reporting Server, SharePoint, web application and Excel Service; making it possible for users to quickly explore, review and export results. Performed data validation and reconciliation on loaded data and reports for data accuracy.
* Provided training and documentation to the IT members and staff on portal functionalities and the database; including report design and specifications on SQL Server views/triggers/stored procedures created.
* Improved query response by 30%; using SQL Profiler to create workload traces, Index Tuning to evaluate traces and review index design, Query Analyzer to analyze troubled queries; in addition to system monitor, query optimizer and other techniques.
* Coordinated work efforts with QA Team and devised rules for a data baseline process to identify data inconsistencies and measure data quality; making it possible to put in place the necessary processes and methods for data validation and data consolidation.

**AT&T BROADBAND/COMCAST, Miramar, FL** **1999 - 2003**

**DBA/ Business Analyst** 2001 – 2003

Promoted to translate senior leadership visions into project plans and to manage database initiatives; by providing expertise on all aspects of database management, data analysis and quality, including data mapping and ETL processes.

* Managed conceptual, physical and logical data models related to all database related projects. Created and maintained best practices in standard operating procedures for data model management, tool usage, and modeling techniques.
* Saved $250,000 annually by evaluating business processes and using System Development Life Cycle (SDLC) methodology in the development and implementation of web-reporting solutions based on VB/ASP.NET and SQL Server2000.
* Led development of Oracle 9i data warehouse, using ETL tools to load data from databases (Oracle8i, SQL Server2000), scripting stored procedures (PL/SQL, T-SQL, SQL) to create reports accessed either by Crystal Reports or intranet portal (JSP, EJB, Servlets).

**Database/Network Analyst** 1999 - 2001

Recruited to lead technical teams on corporate initiatives; creating project plans, performing data analysis and directing teams to consistently deliver projects on time and budget.

* Developed and supported budget tracking application, based on SQL Server2000, JSP, EJB, Servlets, designed to track, approve and report to managers project expense status.
* Led development and implementation of wireless web portal based on Oracle9i database and Java (J2ME) technology, used by 1100 technicians to update work order status in real-time. Delivered training, provided technical support for development, troubleshooting and testing.
* Spearheaded post-merger network and platform consolidation by assisting redesign network architecture based on Cisco technology, Solaris, WindowsNT/2000 server and desktop.

Robert Half Technology, Ft. Lauderdale, FL **1997 - 1998**

**Database/Network Specialist**

Recruited to lead and train staff on database support, administration, and disaster recovery; in addition to, platform migration, data network redesign.

* Administered SQL Server7 databases developing data flows, ERD, data dictionary in support of data warehouse, as well as, performance tuning, replication, backup and recovery strategy.
* Trained support staff on installing, configuring, and troubleshooting networking equipment (Cisco routers and switches), and servers (UNIX, Windows NT and Exchange5.5 servers).

**TECHNICAL PROFICIENCIES**

**Platforms:** Azure Synapse Analytics, Apache Spark, Azure Databricks, Azure Synapse Pipelines, Azure Data Factory, Windows Server, UNIX, Linux.

**Databases:** Azure SQL Database, Azure SQL DW, Azure Cosmos DB, SQL Server, Oracle, Neo4j, HBase, Cassandra, AWS Aurora, Redshift, Athena

**Tools:** Visual Studio, SSDT, SSMS, BIDS, BIDS Helper, SQL Profiler, Query Analyzer, Power BI, (SSRS) Reporting Services, (SSIS) Integration Services, (SSAS) Analysis Services, Tabular Editor, DAX Studio, DAX Editor, MDX Studio, Tableau, ERWin, Visio, MS Office, TFS, Git, Github.

**Languages:** PySpark, Spark SQL, Databricks SQL, Python, T-SQL, SQL, DAX, MDX, PL/SQL, XML, PowerShell, bash, JavaScript.

**EDUCATION:**

**MS, Computer Science**, Nova Southeastern University, Fort Lauderdale, FL (In Progress)

**BA, Mathematics,** University of the Virgin Islands, Saint Thomas, USVI

**AS, Computer Science,** University of the Virgin Islands, Saint Thomas, USVI

**TECHINCAL USER GROUP COMMUNITY:**

**Microsoft Data and AI South Florida** – Organizer

**South Florida Power BI** – Organizer

**SPEAKING ENGAGEMENTS:**

**Microsoft Data and AI South Florida** – Virtual **March 2022**

Power Query in Azure Data Factory

**Power BI Fest 2021 -** Virtual **November 2021**

Exploring Delta Lake Tables with Power BI and Azure Databricks

**Data Weekender** – 4.2 Virtual **November 2021**

Jump Start Your Azure Synapse Analytics Journey

**Data TGIF** – Virtual **August 2021**

Data Analysis with Apache Spark on Azure Synapse Analytics

**Microsoft Data and AI South Florida** – Virtual **August 2021**

Get Started with Azure Synapse Analytics

**Data Weekender** – Virtual **May 2021**

Data Engineering using Azure Synapse Analytics and Apache Spark

**Power BI Fest** 2019: South Florida – Fort Lauderdale **November 2019**

DAX Quick Start with power BI

**SQL SATURDAY** – #951 Tampa 2020 **September 2019**

DAX 360 and Power BI

**Data and AI South Florida** **May 2018**

Applied Machine Learning with Python

**SQL SATURDAY** – #627 South Florida 2017 **June 2017**

Applied Machine Learning with R Programming and Power BI Dashboard

**SQL SATURDAY** – #440 Pittsburgh, PA 2015 **October 2015**

**SQL SATURDAY** – #386 Albany, NY 2015 **July 2015**

**SFSSUG** – South Florida SQL Server User Group **April 2015**

**SQL SATURDAY** – #379 South Florida 2015 **June 2015**

An Introduction to Big Data, Hadoop and Microsoft Azure HDInsight

**SQL SATURDAY** – #379 South Florida 2015 **June 2015**

**MSBISF** – Microsoft Business Intelligence User Group of South Florida **March 2015**

An Introduction to Hive on Azure HDInsight

\* = Upcoming events