Vijay Rodrigues

Data Analyst / Data Engineer

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SUMMARY

As a seasoned **Data Analyst / Data Enginee**r with **5.7 years** of experience. I leverage expertise in GIT, GitHub, Jira, Azure Databricks, Apache Spark / PySpark, Python (automation and development), and R. Proficient in ETL processes using SSIS, Python, SAS, and experienced with SQL Server. My role involves analysing and engineering data, agile problem-solving, and collaboration to deliver actionable insights and solutions.

SKILLS

Python, R, Spark (Spark - SQL) / Pyspark, SQL Server, SQLITE, Azure Databricks, HTML, CSS, SSIS - SQL Server Integration Service, ETL (Extract, Transform and Load), Automation, Flask, Web Scraping, Selenium WebDriver, BeautifulSoup

EXPERIENCE

Analyst - Data and BI   **April 2023 – Present**

Chubb Business Services India LLP, Bangalore

- Enhanced efficiency in generating reports for Actuaries' Property and Casualty (P&C) tasks by converting QLIK scripts to SQL Server database environment. This initiative resulted in smoother workflows and a standardized approach to data handling, thereby improving reporting effectiveness for P&C business segments.
- Led the **migration of SSIS packages** and **pipelines** for five sources (SQL Server ON PREM) to **Pyspark**, reducing constraints on data transfer and promoting flexibility. This transition also decreased reliance on SSIS, a licensed platform reducing by **25% of data load time**.
- Maintained comprehensive documentation for project changes and modules, utilizing **GitHub** and **JIRA** for version control and bug tracking. Conducted and actively participated in **code reviews** with team members and acted as a **subject matter expert (SME)** during requirements definition stages, contributing to the implementation of Clarity.

Senior Associate - Data and BI   **Dec 2021 – April 2023**

- Orchestrated the transition of **SAS scripts to R programming** using RODBC. This migration substantially improved data management and accessibility, facilitating the transition of both technical and non-technical stakeholders from Global, particularly North America, towards R for future utilization.
- Engineered a Python automation script to generate personalized Price Monitoring Report templates across various business lines for NA region, effectively **reducing manual tasks and saving 12 to 14 hours** per report generation cycle. This resulted in a **yearly time-saving of approximately 168 hours.**

Data Analyst   **Aug 2020 - Dec 2021**

Proziod Analytics Pvt. Ltd., Bangalore

- Implemented **Python automation** to streamline the preparation of **RFPs (Request for Proposals),** resulting in a significant reduction of **3 hours** in manual work.
- Successfully implemented a streamlined process change workflow and process improvements, resulting in a positive turnaround time and **saving approximately 2 hours** compared to previous methods.
- Served as a **key intermediary** between Account Managers and Retailers, facilitating effective communication and **gathering essential business requirements** for the tender process.

Technical Recruiter   **Jan 2019 - Aug 2020**
TEKsystems (an Allegis Company), Bangalore

- Conducted thorough profile gathering and screening processes, utilizing referrals and job boards such as LinkedIn and Naukri, to ensure the submission of high-quality candidate profiles to the Client Manager.
- Provided support to clients across diverse domains including Banking, Automotive, Retail, E-Commerce, and Healthcare, actively collecting market intelligence on relevant job positions.

PROJECTS:

Actuarial Server Migration   (ANZ)

- Spearheaded the **biweekly migration** of over **1.5 billion records** from various structured data sources to an on-premises Data Warehouse, utilizing SSIS for process automation. This critical project created a reliable data repository for **ANZ (Australia and New Zealand)** Actuaries, ensuring compliance and establishing a robust platform for their operations.
- Maintained existing SSIS packages, implemented new ones, and optimized queries to enhance execution speed.
- Developed and managed **an automated Python reconciliation framework** for various data sources, achieving a **90%** efficiency in report generation. This optimization greatly improved data validation, testing, integrity, and credibility by streamlining processes, **saving approximately 4 hours of manual work**.
- Developed an automated reconciliation framework for the PCW data source, which generates comparison report between the Actuarial Server (on-prem), Oracle (source), and AIP (destination). I utilized Python for this process, enabling the report to identify aggregate mismatches across all three source points.
- Coordinated with stakeholders and business users to gather detailed requirements, and collaborated with DBAs for post-ingestion processes.

Statutory Reserving Line Validation   (APAC)

- The project's goal was to identify incorrect transactions from ACE / CHUBB and correctly map premiums to the appropriate lines of business. The previous Python-based process was limited to a few reserving lines at a time due to memory issues.
- Developed and designed PySpark code from scratch for the Casualty and FinLines business lines. This involved extracting data from Azure SQL and using PySpark for data transformation, leading to actionable insights and reports. This new process enabled the extraction of **over 15 years of historical data** and the processing of **10-20 million records**, eliminating the need for manual extraction methods.
- Implemented multithreading for data extraction, enabling parallel retrieval and reducing extraction time from **8 hours to 3 hours approximately**.

EDUCATION

MBA (Marketing and HR)   Sep 2016 - Jun 2018
SDM College of Business Management, Mangalore

BCA (Bachelor in Computer Applications / Computer Science)   Mar 2013 - Mar 2016
St. Aloysius College, Mangalore

CERTIFICATIONS

- Databricks Accredited Generative AI Fundamentals
  Credential: https://credentials.databricks.com/4b2e7c63-c28b-4267-bf5d-bd5a97cf208c

- Databricks Accredited Lakehouse Fundamentals
  Credential: https://credentials.databricks.com/41e233c9-530e-45d7-b397-61bbb4ef499b