**Jermaine Samuels**

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Summary: Experienced Data Engineer and Data Scientist with a strong background in Business Analytics with a focus on building interactive and data intensive applications.

**Experience**

**Data Engineer** • Fujitsu Caribbean Limited Nov 2020 – Present

* Scripted unique on-premise data transformation solutions for clients using Python.
* Conducted requirements gathering sessions and proposed relevant data architectures.
* Built reliable and scalable ETL pipelines using Azure Data Factory, Databricks, Synapse Analytics and Azure Data Lake Gen2 Storage.
* Utilized Git and Azure DevOps Git to manage code base and pipeline deployment across multiple environments.
* Delivered high quality, production ready pipelines for an array of projects for enterprise clients such as RedStripe Jamaica Limited and National Water Commission Jamaica.
* Evaluated client documentation and technical requirements to implement data lakehouse solutions.
* Implemented departmental and global data analytics dashboards for clients using PowerBI.
* Built Proof of concept designs for azure cloud architecture and included data governance framework using open-source tools such as datahub.
* Provided and redefined query optimization protocols for latency management and timely dashboard refresh yielding at least 30% improved efficiency.
* Built prediction models with Databricks and Azure machine learning via Python or Spark, and hosted analysis results in PowerBI online dashboards.
* Implemented metadata driven tasks for large scale data staging between client subscriptions to facilitate local reporting.
* Implemented internal azure architecture to manage user resource group deployment for support service sales opportunities.

**Business Analyst** • Guardsman LimitedJul 2017 – Nov 2020

* Generated departmental KPI reports for accounts receivables, billing and collections department.
* Lead and conducted in depth analysis of business performance versus business goals.
* Established relationships across disparate data sources and datasets for executive dashboards and data warehouse needs.
* Automated report generation with macro scripts within excel and python for csv generation.
* Created solution to track and tag unapplied cash to stimulate invoice generation using CRON tasks and pdf scraping.
* Collected and documented requirements for departmental business and data analytics.
* Redefined standard operating procedures for generating bad debt reports for the receivables and finance department.
* Significantly reduced operational delay and vehicle dispatch reporting with task automation scripts with python.

**Data Scientist** • University of the West Indies (Co-Op) May 2021 – Aug 2021

* Built a Jupyter notebook deployment via viola to predict and segment gliomas using convoluted neural network and hosted the models on premise using a .h5 file.
* Performed natural language processing of scholarly articles to define how cnn may be improved by contrasting additional features from MRI scans.

**Education**

**Niagara College Tsom:** International Business Management (May 2023 – Dec 2023)

**University of the West Indies**

* Masters in Applied Data Science ***(2019 – 2021)***
* Post Graduate Diploma in IT ***(2017 – 2018)***
* Bachelor of Science Chemistry and Marine Biology ***(2009 -2013)***

**Skills**

**Programming Languages**: Python, SQL, Scala, R, Spark, CSS, HTML.

**Libraries and Framework:** Pandas, Numpy, scikit learn, matplotlib, SciPy, Flask, Django

**Tools and Platforms:** Jupyter, BigQuery, GitHub, Azure, AWS, Collibra, Databricks, PowerBI

**Certifications:** AWS Cloud Practitioner, Azure Data Engineer, Power BI Data Analyst, Azure AI Fundamentals

**Projects**

**Data Prime Project (RedStripe Jamaica Limited) Dec 2022 – Current**: Built ETL pipelines to pull and transform data from multi subscription azure environments. Leveraged azure resources such as data bricks, azure data lake storage and synapse serverless along with data factory for data orchestration. Reports hosted in synapse were subsequently connected to PowerBI for reporting.

**Report Automation Proof of Concept (Fujitsu Caribbean) Dec 2021 – Current:**

Implemented solution architecture hosted on Azure to ingest, transform, and visualize data at scale for enterprise level organizations. The solution featured simple deployment and parallelization of resources such as compute, storage, job scheduling and reporting. The solution supported streaming, experimental analytics, azure cognitive services and batch processing that promotes business intelligence.

**Farmgate Dashboard (Fujitsu Caribbean) 2021 - 2022:** Built and deployed a data analytics dashboard using Streamlit that showcases data that was extracted from a Jamaican website related to crop prices. The App shows general price trend of crops and a basic prediction model using random forest regression. <https://lnkd.in/ej6Cuwmz>.

**Data Extraction and Transformation (NWC) Nov 2020 – Dec 2021:**

Completed implementation of report extraction from legacy on premise Dynamics 365 Financial Portal by leveraging power automate web-based report extraction capabilities. Then subsequently these files were processed / transformed via a python script in user offline mode through windows scheduler. The run could only be established by creating system Desktop directories via an elevated command prompt.

**Report Automation and Executive Dashboard Preparation (Guardsman Limited) July 2017 – Oct 2020:**

Created report automation utilizing python scripts which would subsequently load data to a SQL data warehouse. This would be augmented by SSRS to generate reports or PowerBI to allow various personnel to access reporting. Reports were automatically run on premise using windows scheduler or CRON jobs of the python scripts.

**Interests**: Fitness, Music, Technology, Site Seeing and Traveling.