ALFRED AMACHREE

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EDUCATION

University of Kansas, Missouri	July 2020

Certificate, Data Science (Bootcamp)

Covenant University, Nigeria	July 2017

Bachelor of Engineering, Information and Communication Engineering

WORK EXPERIENCE

H&R Block, Kansas City MO	October 2020 – Present

Data Engineer II

- Developed multiple ETL pipelines to ingest data from various on prem and cloud sources leveraging Microsoft Azure data factory and IBM DataStage to form the backbone data sources for enterprise reporting in Looker.
- Developed databricks notebook using pyspark and sparksql to incrementally load delta live tables to Azure SQL Database for consumption by data users.
- Performed data analysis and data quality checks on tables loaded to ensure data loaded was properly cleansed and accurate for downstream data users.
- Worked with Senior Leadership team to scope and define KPIs for new banking product. Modelled Data, Designed and maintained multiple ETL Pipelines for this product leveraging Databricks, Pyspark, SparkSql and Azure data factory.
- Developed a python library that helped to speed up how data was migrated from OLTP DB into Enterprise Data Platform for new Banking product.
- Worked with Data Scientists to deploy machine learning models to production both in IBM Cloud Pak for data and Microsoft Azure, making use of Azure data factory and Databricks.
- Created technical documentation on migrating Jupyter notebooks and developing standard JDBC connection strings to enterprise data warehouses.
- Maintained and install new and custom python and R packages for data scientists.
- Worked with Data Analysts/Information Governance teams to understand and scope data needs for accurate reporting/visualizations.

Cerner Corporation, Kansas City MO	October 2018 – October2020

Data Engineer

- Developed data pipelines using ETL knowledge that read csv/HL7 messages, transforms the data to required specs using Python, Pandas and loads data to SQL Database.
- Developed an automated Turnover reporting app that queries DB and generates csv file, takes the csv and creates a standardized spreadsheet using VBA module saving 3 hours per full time employee on each project.
- Made use of multiple commands to navigate Linux and work with large data files and multiple directories.
- Designed Training guide and trained new engineers on interface design and types of data manipulation scripts using Cerner Millennium tools alongside Python and dB technologies.
- Created a model to predict new employee billability using knowledge of machine learning and Linear regression models also tools like pandas Dataframes and matplotlib based on data retrieved from Survey monkey on associate's billability. The model helped to identify $60,000 per annum cost saving.

Boys2MenGirls2Women Foundation, Fresno CA	November 2017 – September 2018

Data Analyst

- Analyzing data traffic to determine point of failure and gave recommendations for prompt resolution.
- Troubleshooting and repairs of hardware and software related issues.
- used SQL to Design and Maintain database of new volunteers and current enrolled students in the program.

Huawei Technologies   January 2016 - July 2016
Data Engineer, Intern
- Used SQL queries to generate daily reports on server conditions and LTE devices in the Network Operating Center which helped to drive server performance decisions.
- Assisted engineers at remote core server sites in resolving series of exchange server issues.
- Facilitated the looping of Huawei ATAE 3.0 servers to core data exchange server in network room which helped to increase the overall data farm space by 10%.
- Assisted in management of VOIP (IPCC) using Huawei CTI technology over a UAP portal.

TECHNICAL PROJECTS
- **Weather RESTAPI App**: Created a RESTAPI using Python Flask library that ingest data retrieved via get request, transforms retrieved data and stores in my Sqlalchemy DB and delivers JSON responses to a user over the web.
- **Web scraping App**: Used Python Beautiful soup library to Perform Web scraping of NASA webpage and stored retrieved information in MongoDB and created an API endpoint that can interact with the DB and return results in a HTML webpage.
- **Predictive Modelling**: Used Python/Matplotlib and knowledge of Machine learning and Linear regression to model possible temperatures in each location based on their latitude in a dataset gotten from Kaggle.

SKILLS
- **Programming Languages:** Python, HTML/CSS, JavaScript, SQL, VBA, CCL, Pyspark, SparkSQL
- **Libraries:** - Flask, Pandas, Sklearn, NLP, Matplotlib, NumPy, Beautiful Soup, Sqlalchemy, Plotly, D3, Leaflet.
- **Cloud:** Azure, IBM cloudpak
- **Databases:** MongoDB, PostgreSQL, Oracle SQL   **Tools:** Git, Tableau, Looker.
- **Exploring:** Docker, Terraform, Snowflake, AWS.
- **Soft Skills:** Lean Process Improvement, Problem Solving, Collaboration, Project Management, Agile dev.

VOLUNTEER ACTIVITY

Secretary IEEE (Covenant University)**,** Soccer player (college)