

BARRY V. MARTIN



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EXPERIENCE

AUGUST 2021 – PRESENT, REMOTE POSITION

SOFTWARE ENGINEER, SAPPHIRE DIGITAL

- Develop ETL/automation/pipeline jobs with Airflow
- Help maintain or develop new features in existing Flask applications
- Use Spark /EMR for production jobs that join data sources and writes parquet files
- Developed Spark pipeline via multiple Airflow dags that are critical to data ops
- Create automation tools for a variety of needs like working with AWS and parsing large json or parquet files
- Perform ad hoc data analysis using Jupyter, DuckDB and Polars
- Use docker and vagrant for local development
- Work in agile culture in 2 week sprints

JANUARY 2013 – AUGUST 2021, REMOTE POSITION

DATA ANALYST/SCIENTIST, CH ROBINSON

- Develop BI apps using frameworks like Flask, Streamlit, R Shiny and Plotly
- Use BI apps like Power BI to create dashboards
- Develop in linux environment and use docker for containerization
- Use simple modeling techniques like regression to get insights
- Use Jupyter notebooks for data analysis and visualizations
- Write complex queries in MS SQL Server, Hadoop/Hive and Postgres
- Develop data pipelines using python and Airflow

SKILLS

GENERAL

Python
Docker
Flask
Linux scripting
JavaScript

DATA

Apache Spark
SQL (MS, Postgres)
Airflow
REST APIs
DuckDB/Polars

CLOUD

AWS EC2
AWS EMR
AWS CloudWatch
AWS Lambda
Boto3 SDK

EDUCATION

INFORMATION TECHNOLOGY, BS UMASS LOWELL

Programming and relational databases focused coursework

ATMOSPHERIC SCIENCE, BS UNIVERSITY OF OKLAHOMA

Research student at NSSL and also earned a minor in Mathematics