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 2014 – 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	DATA	CLOUD
Python	Apache Spark	AWS EC2
Docker	SQL (MS, Postgres)	AWS EMR
Flask	Airflow	AWS CloudWatch
Linux scripting	REST APIs	AWS Lambda
JavaScript	DuckDB/Polars	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