Mitchell Montanio

Data Engineer | Software Engineer

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EXPERIENCE

FINRA, Dallas, TX — *Big Data Engineer*

Jun 2024 - PRESENT

- Upgrade data pipelines to increase processing power using Python, XML, Jenkins, AWS EMR, shell scripts, JavaScript.
- Develop unit and integration tests to ensure 100% success rate of production deployments as part of broader SDLC adoption.
- Leverage prompt engineering with AI for improved efficiency and better coverage of edge cases in testing.
- Collaborate with a team of engineers to migrate 850+ ETL jobs from legacy Activiti BPMN workflows to modular, testable Python code in Apache Airflow, improving maintainability and orchestration.

Lumen, Dallas, TX — *Data Engineer II*

Aug 2023 - May 2024

- Acted as SME on existing and new data processes that provided $20+ million in company savings, annually.
- Optimized databases and queries to minimize cost, decrease data processing speeds, and increase data robustness.
- Automated analytics processes, saving time and ensuring reporting accuracy for stakeholders and analysts.

Dentsu, New York, NY — *Data Engineer II*

Jan 2022 - Jun 2023

- Led end-to-end data processing—including ETL, database management, dashboarding, and reporting—for multi-billion dollar ad accounts (Macy's, McCormick, LVMH, Intel, etc.).
- Conducted data quality audits and resolved discrepancies to maintain 99.5%+ accuracy and consistency across datasets.
- Migrated TB-scale Postgres databases to a Hive data warehouse, reducing operational costs and significantly improving performance (~50% OpEx savings, ~75% speed gains).

IBM, Baton Rouge, LA — *Data Engineer*

Jan 2021 - Jun 2022

- Migrated 10B+ rows of historical data from Oracle and implemented TB-scale livestreaming to cloud databases to enable real-time analytics
- Designed APIs, built data pipelines, and managed databases in Agile teams to deliver scalable data solutions aligned with business needs.

EDUCATION

Louisiana State University
M.S. in Analytics — GPA: 4.0
B.S. in Information Systems

SKILLS

Programming: Python, SQL, Scala, Java, Bash

Big Data Tools: Spark, Hive, Hadoop, EMR

Cloud Platforms: AWS (S3, Redshift, Lambda, EMR), Snowflake, GCP, Azure

Data Engineering: ETL Pipelines, Data Warehousing, Streaming Data, Real-time Processing

Databases: PostgreSQL, Oracle, MySQL, SQL Server, MongoDB, Cassandra

DevOps & Workflow: Docker, Jenkins, Git, CI/CD, Airflow

Systems & Environments: Linux/Unix, Shell Scripting, Windows, Mac

Methodologies: Agile Development, Unit Testing, Integration Testing, Peer Code Reviews

PROJECTS

Board Member and Chair of the Website Committee, SFSLAC — Provide organizational leadership while overseeing web strategy, development, and digital communication efforts.

Rental Market Analytics — Built Python scripts for web scraping and API calls to collect daily rent data from The Village (Dallas, TX); analyzed time series trends to challenge nearby apartment pricing claims.