AUSTIN, TX • LEVIGAGNE0@GMAIL.COM • (989) 423-7334

LEVI GAGNE

Data Engineer

PROFESSIONAL SUMMARY

Data Engineer specializing in **Python**, **Spark**, and **SQL** to build **cloud-based data pipelines** and **automate production reporting.** Skilled in **AWS, Databricks, Hadoop,** and **Power BI,** with experience improving data pipelines and supporting business intelligence initiatives. Background in quantitative analysis and applied econometrics, with a focus on scaling data workflows and optimizing reporting systems for production use.

EMPLOYMENT HISTORY

DATA ENGINEER   **Jun 2021 - Jun 2024**
General Motors   *Austin, TX*

- Automated end-to-end ETL workflows using PySpark on Kubernetes, integrating data from S3 and Hadoop to optimize transformations and eliminate manual intervention across pipelines.
- Developed a Python-based real-time monitoring solution for production jobs, incorporating automated alerts and extended log retention to enable faster issue resolution and improve system reliability.
- Automated the General Motors Daily Sales Report in Excel, PDF, and Power BI, creating interactive dashboards in Power BI to provide stakeholders with real-time visibility into key sales metrics and performance trends.
- Created and automated 14 unique KPIs across 96 daily reports by writing and optimizing SQL queries from sales, calendar, and dimension tables, then migrating workflows to Spark SQL to improve performance, scalability, and maintainability.
- Led weekly Databricks learning sessions for teammates, covering Spark notebook management, S3 bucket mounting, and efficient use of Spark-powered notebooks to improve collaboration and reduce reliance on traditional Jupyter notebooks.

GRADUATE ASSISTANT   **Aug 2020 - May 2021**
Central Michigan University   *Mount Pleasant, MI*

- Graded assignments, entered scores, and occasionally lectured, providing administrative and instructional support to ensure smooth course operations.
- Guided students in statistical and economic techniques, enhancing their understanding through tailored support in lectures, assignments, and one-on-one sessions.
- Created a digital archive of economic research from historical newspapers, developing a searchable filing system by categorizing topics and years from manually processed records.

EHS INTERN   **Jun 2020 - Aug 2020**
Amazon.com, Inc.   *Seattle, WA*

- Assisted with risk assessments by identifying workplace vulnerabilities and learning best practices for reducing incidents and improving safety standards.
- Observed and supported the development of equipment safety protocols, gaining hands-on experience in identifying and mitigating potential hazards.
- Participated in job hazard analyses, contributing to discussions on workplace safety improvements while building foundational knowledge in risk management strategies.

PATHOLOGY CO-OP   **Jul 2016 - May 2021**
Dow Chemical   *Midland, MI*

- Collaborated with toxicologists and pathologists to collect R&D samples, supporting regulatory requirements and internal product research.
- Helped process histological samples for slide analysis, preparing high-quality slides used in studies for regulatory submission and internal evaluations.
- Learned and assisted in various aspects of toxicology research from study start to finish, gaining the skills needed to eventually conduct studies independently.

EDUCATION

MASTER OF ARTS: ECONOMICS **Aug 2019 - May 2021**
Central Michigan University *Mount Pleasant, MI*

BACHELOR OF SCIENCE: ECONOMICS & ENVIRONMENTAL STUDIES **Aug 2018 - May 2020**
Central Michigan University *Mount Pleasant, MI*

SKILLS

Python, SQL, Hadoop, Apache (Airflow, Iceberg, Kafka, NiFi, Parquet, Spark), AWS (EC2, Glue, Lamda, S3), Databricks, ETL, Kubernetes, Linux, Unix, Stata, Econometrics, Jupyter Notebooks, Data Modeling, Data Validation, Power BI, Dashboards.

LINKS

LinkedIn: www.linkedin.com, GitHub Portfolio: github.com.