
CAREER PROFILE

Experienced Data Engineer skilled in problem-solving with a proven track record of 5 years in dynamic and fast paced environments across various industries. Leveraging a strong technical acumen, successfully helped DAAP scale their business by modernizing their technology stack, optimizing data processes, and implementing cost-effective solutions for their data warehouse.

PROFESSIONAL EXPERIENCE

Data Engineer – DAAP Team | October 2021 – Present
Spins, LLC - Chicago, IL

- Revamped legacy queries by implementing clustering techniques, resulting in significant reductions in execution time across client data models and cost savings. Successfully decreased BigQuery expenses by \$500K annually.
- Streamlined the client configuration process by implementing workflow orchestration using Apache Airflow. Achieved an impressive 80% reduction in the time required to refresh client data by efficiently running tasks in parallel.
- Spearheaded the migration of ETL processes from legacy software to a modern tech stack, leveraging Docker, Python, Bash, Airflow, and Kubernetes. Hosted the infrastructure on Google Cloud Services.
- Managed client relationships, ensuring exceptional support and assistance with new data products, product rollouts, troubleshooting, and providing ad hoc technical support.
- Developed and implemented automated processes to tailor client data for a diverse portfolio of 10+ clients. Successfully delivered monthly datasets, totaling hundreds of terabytes, precisely meeting each client's specific requirements.
- Created a Python and Apache Airflow-based tool that automated the monthly clearance of outdated tables from our team's database. This initiative resulted in cost savings exceeding \$5,000 per month in cloud expenses.

Process Analytics Engineer | December 2019 – October 2021
Ingredion - Argo Plant, Bedford Park, IL

- Developed and implemented real-time data pipelines to process semi-structured data through Azure Data Factory
- Wrote custom queries to retrieve specific data and built corresponding visualizations.
- Built PowerBI application with reports spanning all major KPIs in the manufacturing process.
- Led digital transformation efforts that significantly improved visibility and reduced time-to-insight by over 90%
- Demonstrated exceptional technical leadership throughout the entire lifecycle of data projects, including brainstorming, planning, ETL process implementation on Azure, and the creation of PowerBI dashboards.
- Executed \$250K capital repair project of Ion Exchange reactor; delivered project on-time and under budget.
- Led capital project to retrofit Adsorption columns to run in series that improved daily production and revenue by >10%; completed project on-time and saw it through to start-up.

Associate Engineer | June 2018 – December 2019
Ingredion - Argo Plant, Bedford Park, IL

Engineering Intern | May 2017 – August 2017
Iowa Fertilizer Company - Wever, IA

EDUCATION

The University of Iowa, Iowa City, IA

Bachelor of Science with Major in Chemical Engineering, Minors in Business & Chemistry | May 2018

CERTIFICATIONS

DataCamp: Data Engineer with Python | 2022

- Completed 19 courses including topics covering Bash Scripting, Python, PySpark, and Apache Airflow

DataCamp: Python Fundamentals | 2022

Coursera: IBM Data Science Professional Certificate | 2021

- Completed 10 course specialization including Python, SQL, and Machine Learning projects

TECHNICAL SKILLS

- Apache Airflow, SQL (proficient), Python (proficient), GCP (proficient), BigQuery (proficient) Azure (experienced), PowerBI (proficient), Databricks (familiar), Bash, Docker, Kubernetes, OOP, Vim, Git, Flask, Data Visualization, Machine Learning (familiar), Green Belt LSS, Communication, Analytical Skills, Critical Thinking, Problem Solving, MS Suite