

Eric Flynn

Data Engineer

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SUMMARY

Versatile data expert with 5+ years of experience working with complex business systems. Skilled in ETL development, data modeling, and large-scale analytics, with a proven track record managing teams and enterprise-level initiatives. Eager to leverage AI, automation, and emerging technologies to drive innovative change to organizations.

SKILLS

- | | | |
|----------------------|-----------------------|------------------------------------|
| • Python | • Apache Airflow | • Data Engineering & Analytics |
| • SQL | • Apache Kafka | • Systems Optimization |
| • Snowflake | • Linux | • Cloud Computing |
| • Tableau | • SAS | • Project Management |
| • Microsoft Power BI | • Amazon Web Services | • Generative AI & Machine Learning |

PROFESSIONAL EXPERIENCE

1-800-Flowers.com Inc.

Jericho, NY

Manager, Business Analytics

06/2023 - Current

- Driving the migration and consolidation of 100+ legacy SAS/Excel jobs into a Snowflake and Power BI stack, enabling real-time self-service dashboards for over 5 functional units
- Partner with teams across the enterprise to build standardized SQL data models, creating a single source of truth that accurately reflects key business metrics
- Introduced Python and SQL to the team, training colleagues and standardizing workflows around modern data practices
- Implemented validation checks, audit logging, and documentation standards to improve data integrity and ensure confidence in reporting

Kiss Products Inc.

Port Washington, NY

Senior Business Analyst (Data Engineer)

08/2022 - 06/2023

- Managed a team with three direct-report analysts tasked with the development of corporate-level BI initiatives
- Designed, implemented, and maintained a self-managed Apache Airflow environment (Docker/Linux) consisting of several custom-built Python ETL pipelines
- Administered an ecosystem of over 15 Power BI dashboards ensuring data accuracy and maintaining 97% uptime
- Hosted monthly "Data Excellence" meetings, driving technical discussions and encouraging cross-functional knowledge transfer, leading to the implementation of a Corporate Data Center of Excellence

Junior Supply Chain Analyst

04/2021 - 08/2022

- Delivered 8+ Power BI dashboards providing strategic visibility into KPIs across the end-to-end supply chain
- Continuously performed inventory optimization on over 4,000 SKUs, maintaining sub-3.5% backorder ratio

EDUCATION

Binghamton University, State University of New York - Watson School of Engineering

BS & MS in Industrial and Systems Engineering, 4+1 Accelerated Masters Program

NOTEWORTHY PROJECTS

NutriBot - Personal Project

08/2025 - Current

Development of a multi-phase AI application for meal logging, nutrition analysis, and health data integration

- Built a Streamlit app using the OpenAI API to parse meals, estimate macros, and return formatted JSON
- Integrated SQLite for persistent logging and long term analytics
- Planning MCP-based agent architecture to integrate Whoop wearable data and USDA APIs for real-time RAG

Oracle to Snowflake Refactoring - 1-800-Flowers.com

06/2025 - Current

Modernization initiative to refactor complex Oracle reporting logic into Snowflake

- Translated legacy Oracle PL/SQL into Snowflake-compatible SQL, preserving intricate business rules while optimizing for performance and reusability
- Automated previously manual reporting processes, eliminating hourly manual downloads from Oracle

FedEx Dataworks Implementation - 1-800-Flowers.com

11/2024 - 02/2025

Enterprise-wide initiative to upgrade EDI data feed to FedEx Dataworks webhook API

- Led the implementation of FedEx Dataworks under a tight three-month timeline, coordinating across internal and external IT teams to productionize an Apache Kafka-based ingestion pipeline
- Designed and executed a multi-layered A/B testing methodology to isolate the impact of key features
- Reduced customer service inquiries by 20% and cut latency by 50 minutes, projecting \$430K in annual savings

Third Party Parcel Data Integration - 1-800-Flowers.com

06/2024 - 12/2024

Cross-functional initiative to ingest third-party shipping invoice data into Snowflake

- Led the design and implementation of an automated data feed to ingest raw invoice data from a parcel auditor
- Transformed complex nested JSON structures into relational data models, enabling detailed shipment-level analytics

Peak Season FedEx Plan Predictive Analytics - 1-800-Flowers.com

03/2024 - 06/2024

Data-driven revamp of peak holiday period shipment planning process

- Applied a SQL-based decision tree to granularize top-line forecasts into detailed projections by day, location, and service type for 150+ locations across 7 unique fulfillment networks
- Replaced a manual Excel-based process with Tableau, enabling rapid evaluation of multiple scenarios and a reduction in data preparation time from weeks to days

FedEx Time-In-Transit Data Upload Automation - 1-800-Flowers

01/2024 - 02/2024

Automation of routine process in which FedEx time-in-transit data must be re-uploaded into internal systems

- Developed and implemented a custom Python script to automate the extraction and processing of FedEx time-in-transit (TNT) data from Microsoft Access, replacing a previously manual process
- Reduced overall process time by 90%, leading to a 10% improvement in on-time deliveries during the transition period compared to the previous year

Big Data & AI Architecture - Kiss Products

11/2022 - 06/2023

Corporate-level initiative to introduce big data architecture and machine learning capabilities

- Surveyed cross-functional teams throughout the enterprise to define project scope and requirements
- Aggregated interdepartmental stakeholder requirements to devise an enterprise-level big data architectural design plan
- Conducted discovery meetings with Snowflake and Databricks as the main point of contact

Personal Fitness Application - Personal Project

10/2022 - 01/2023

Live web application designed to visualize personal fitness data collected from an Apple Watch

- Constructed an automated ETL pipeline from Apple Health to MySQL using Amazon Web Services
- Deployed a self-hosted Streamlit application on AWS EC2, configured with Nginx for reverse proxy, and custom DNS routing via AWS Route 53