

Eric Flynn

Data Engineer

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SUMMARY

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

SKILLS & CERTIFICATIONS

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|----------------------|----------------------------|-----------------------------------|
| • Python | • Apache Airflow | • Artificial Intelligence |
| • SQL | • Linux | • Cloud Computing |
| • Tableau | • PyTorch | • Data Infrastructure & Analytics |
| • Snowflake | • SAS | • Project Management |
| • Microsoft Power BI | • AWS Solutions Architect* | • Systems Optimization |

PROFESSIONAL EXPERIENCE

1-800-Flowers.com Inc.

Jericho, NY

Network of 10+ subsidiaries which form the top floral and gifting conglomerate in the continental United States

Manager, Business Analytics

06/2023 - Current

- Transitioned legacy analytics infrastructure from SAS/Excel to Snowflake/Tableau, reducing reporting overhead by 20 man-hours per week and enabling self-service analytics for 5+ functional units
- Collaborate with teams across subsidiaries to break down data silos and integrate analytics at the enterprise-level
- Analyze existing operational workflows, and design solutions to eliminate manual reporting and data entry
- Operate as liaison between enterprise architects and business leaders providing real-time analytics on system enhancement initiatives, ensuring no impact to critical functions

Kiss Products Inc.

Port Washington, NY

World's leading supplier of artificial nails, press-on nail manicure kits, and false eyelashes; available in over 100 countries

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 complex 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

FedEx Dataworks Implementation - 1-800-Flowers

11/2024 - 02/2025

Enterprise-wide initiative to integrate FedEx Dataworks webhook API into internal systems

- Co-managed the initiative, and successfully delivered to production under a tightly constrained timeline
- Collaborated across multiple engineering teams to implement an Apache Kafka-based streaming ingestion pipeline
- Successfully improved customer experience through a 45 minute latency reduction in package notifications

Third Party Parcel Data Integration - 1-800-Flowers

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 our parcel auditor
- Configured a Microsoft Azure-based SFTP file server to securely receive semi-structured (JSON) data
- Transformed complex nested JSON structures into relational data models, enabling detailed shipment-level analytics

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

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
- Devised a standardized naming convention for all enterprise fulfillers, ensuring consistency and simplicity
- 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

Bi-annual 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, replacing a previously manual process
- Improved upload speed by 40% through enhanced post-processing of the data, leading to a 10% improvement in on-time delivery during the transition period compared to the previous year

E-Commerce Data Centralization - Kiss Products

03/2023 - 06/2023

Proof-of-concept project aimed to consolidate various third party data sources into one centralized data warehouse

- Leveraged Fivetran ETL provider to establish automated data pipelines from 5+ data sources into Google Big Query
- Provided budget and resource estimates for future production system implementation

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 - Passion Project

10/2022 - 01/2023

Live web application designed to visualize personal fitness data

- 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

Advanced Logistics GPS Tracking & SKU Visibility - Kiss Products

01/2022 - 08/2022

Architectural redesign of the inbound logistics data system to enable SKU-level GPS tracking

- Proposed changes in PO data entry procedure, enabling container-level visibility previously unattainable
- Architected several ETL pipelines to ingest tracking and logistics data from external REST APIs
- Enabled SKU-level inbound visibility, directly improving operational efficiency for the Purchasing department