Eric Flynn

Data Engineer

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SUMMARY

Problem solver with extensive experience designing and optimizing data systems. Skilled in data modeling, ETL development, and large-scale data analytics. Adept at designing scalable data architectures and automating workflows to support business intelligence and decision-making. Eager to apply systems engineering mindset and deep passion for data in a role that values both operational excellence and innovation.

SKILLS & CERTIFICATIONS

- Python
- SQL
- Tableau
- Microsoft Power BI
- Apache Airflow

- Docker
- Linux
- SAS
- Snowflake SnowPro*
- AWS Solutions Architect*

- Automation
- Data Infrastructure
- ETL Development
- Machine Learning
- Project Management

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**

- Leading the development of a self-service analytics ecosystem for the Direct Ship Operation, supporting multiple teams including Planning, Customer Experience, Inventory, Vendor Relations, Procurement, and Merchandising Operations
- Re-architecting legacy analytics infrastructure from SAS/Excel to Snowflake/Tableau, resulting in a reduction of 20 man-hours of manual reporting labor weekly and a 50% decrease in data latency
- Coordinating multiple enterprise initiatives tasked with the unification of reporting silos among different subsidiaries
- Consistently provide ad hoc analysis to upper management, facilitating the optimization of a network of 150+ third-party/internal fulfillers, and successfully increasing ground shipping by 1.6% year-over-year

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 Invoice Data Integration Pipeline - 1-800-Flowers   **08/2024 - Current**
Cross-functional initiative to ingest third-party shipping invoice data into Snowflake
- Leading the design and implementation of an automated data feed to ingest FedEx invoice data from Intelligent Audit
- Configured a Microsoft Azure-based SFTP file server to securely receive semi-structured (JSON) data
- Transformed complex JSON structures into relational data models, enabling 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 a Tableau front-end, 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 APIs
- Enabled SKU-level inbound visibility, directly improving operational efficiency for the Purchasing department