

Ryan Pierce

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Experience

Ford Motor Company – Data Engineer, Manufacturing & Quality

May 2024 – Jan 2025

- Provided data stewardship across 15 sources, resolving ETL issues to enhance data accuracy and reliability.
- Led cross-functional meetings, coordinating ETL pipelines migrating data to GCP, accelerating analytics delivery time.
- Developed six data products with Airflow, Python, BigQuery, streamlining aggregation of 500+ manufacturing tables.
- Optimized Python scripts and implemented Airflow best practices, reducing ETL pipeline development time by 75%.
- Created and centralized documentation to streamline new-hire onboarding for Data Stewards.
- Ranked 3rd in Ford's Quality Hackathon, leveraging LLM technology to improve manufacturing quality.

Data Engineer, IT Business Operations

Mar 2023 – May 2024

- Supported dashboard development in Alteryx and QlikSense, enabling business users to make data-driven decisions.
- Led GCP migration from on-prem Hadoop, boosting scalability, efficiency, and cost savings.
- Documented processes to reduce the learning curve for new teammates, accelerating role proficiency.
- Collaborated with cross-functional stakeholders to address business issues and deliver data-driven solutions.

Data Governance Analyst

Apr 2021 – Mar 2023

- Built ETL pipelines using Alteryx, SQL & Python to cleanse diverse data, enabling performance metrics for the team.
- Served as Data Steward and SME for a Hadoop Hive database with over 300 tables to ensure data integrity.
- Conducted root cause analysis of data discrepancies, comparing multiple data sources and API endpoints.
- Enforced security policies for users, ensuring role-based access control and compliance with governance standards.
- Led BMC Remedy ITSM adoption, optimizing ticket tracking and access-provisioning workflows.

Army National Guard – Budget Officer

Oct 2024 – Present

- Supporting managing a multi-million-dollar budget for recruitment & retention efforts, ensuring policy compliance.
- Automate workflows using PowerAutomate/PowerBI, reducing manual labor hours and streamlining data reporting.
- Develop annual financial plans aligned with unit priorities, maximizing resource efficiency and minimizing waste.

Finance and Accounting Officer

Jan 2021 – Oct 2024

- Developed financial readiness training for ~1,500 soldiers, improving fiscal responsibility.
- Led a 15-person Logistics team, ensuring mission readiness through training and operational efficiency.

Financial Analyst, Joint Task Force Guantánamo Bay

Jun 2023 – May 2024

- Executed financial expenditures within Army regulations, reducing risk for a multi-million-dollar budget.
- Developed and presented financial reports and briefings, leveraging SAP & Excel for senior leadership.
- Managed travel reimbursement program for 900+ personnel, streamlining processes and minimizing errors.

Ford Motor Company – Intern, Service & Engineering Operations

Jun 2020 – Aug 2020

- Developed R and Tableau dashboards, analyzing data for informed decision-making.
- Implemented predictive analytics in Tableau, forecasting future sales and guiding resource allocations.
- Automated data pipelines with Alteryx and integrated HTML, CSS, JavaScript, enhancing dashboard appearance.

Education

Wayne State University – Master of Data Science & Business Analytics

In Progress, Expected: 2026

University of Michigan – Master of Applied Data Science

70% Complete, GPA: 3.5

Eastern Michigan University – B.B.A. in Accounting Information Systems

Dec 2020, GPA: 3.4

Skills

Programming: Python, SQL, Terraform, R, VBA, HTML/CSS, JavaScript

Data Engineering & ETL: Apache Airflow, BigQuery, Hadoop/Hive, GCP, Alteryx

Business Intelligence & Visualization: SAP, Power BI, Tableau, QlikSense

Automation & AI: PowerAutomate, GitHub Copilot, ChatGPT