Ryan Pierce

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Experience

Ford Motor Company   Dearborn, MI
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 to coordinate migrating data to GCP and accelerating analytics delivery time.
- Developed ETL pipelines for six data products with Airflow, Python, BigQuery, streamlining aggregation of 500+ tables across ~30 Ford manufacturing plants for increased data enablement.
- Optimized Python scripts and implemented Airflow best practices, reducing ETL pipeline development time by 75%.
- Created, centralized, and presented documentation to streamline new-hire onboarding for Data Stewards.
- Ranked 3rd in Ford's Quality Hackathon, leveraging LLM technology to improve manufacturing quality.
- Reduced GCP costs by collaborating with source teams to review cloud resource usage and ensure efficient utilization.

Data Engineer, IT Business Operations   *Mar 2023 – May 2024*

- Supported the development of dashboards to provide insight to business users using Alteryx & QlikSense.
- Led migration from on-premises data storage and ETL processes to Google Cloud Platform (GCP), enhancing scalability, efficiency, and cost savings.
- Documented learnings and processes to minimize the learning curve for new teammates.
- Collaborated with stakeholders across departments to review business issues & deliver actionable insights.

Data Governance Analyst   *Apr 2021 – Mar 2023*

- Built data ingestion pipelines using Alteryx, SQL, and Python to cleanse and aggregate data from various data sources and built out the team's performance metrics; presented analysis and findings to Senior leadership.
- Assigned as Data Steward for two databases consisting of 300+ tables of data in Hadoop Hive.
- Investigated data discrepancies using various endpoints and UIs to compare with results from API calls.
- Maintained security policies for users, ensuring appropriate access based on data classifications and roles.
- Led and trained team in transition to BMC Remedy ITSM for requests and incident reports submitted to the team.
- Collaborated with teammates to transition the access-provisioning process to GCP.
- Mitigated risk by developing an Alteryx workflow to review user access against required attestations, flagging non-compliant users, and generating an email list for reminders or access revocation.

Army National Guard   Lansing, MI
Budget Officer   *Oct 2024 – Present*

- Support budget execution of a multi-million-dollar budget for recruiting and retention purposes of National Guardsmen across the state of Michigan, ensuring compliance with fiscal policies & regulations.
- Refine current workflows to reduce labor hours used in manually processing data and to streamline reporting using Microsoft PowerAutomate and PowerBI.
- Develop annual financial plans aligned with unit priorities, maximizing resource efficiency and minimizing waste.

Finance/Accounting Officer   *Jan 2021 – Oct 2024*

- Developed and presented financial readiness training across the Brigade consisting of ~1,500 soldiers.
- Supported the management of a 15 personnel Logistics section to complete required readiness training and perform duties as commanded.

Financial Analyst – Joint Task Force Guantánamo Bay   *Jun 2023 – May 2024*

- Oversaw & executed financial expenditures in compliance with Army regulations to minimize financial risk for a multi-million-dollar budget.
- Analyzed and prepared weekly financial reports and briefings for senior officers & leaders, offering insights and recommendations for optimizing budget allocations using SAP/GFEBS Business Intelligence and Excel.
- Managed travel reimbursement program for 900+ personnel, streamlining processes and minimizing errors.
- Standardized documentation processes by creating and maintaining a Wiki section in Microsoft Teams.
- Collaborated with the Contracting team to draft initial contracts in SAP/GFEBS before solicitation.
- Recognized for performing at a level exceeding my rank, operating at a Major's capacity as a First Lieutenant.

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Coupa Software (Formerly LLamasoft)   Ann Arbor, MI
Technical Support Specialist   *Oct 2020 – Apr 2021*
- Provided help-desk support for internal users and external customer installation & troubleshooting of AI-powered supply chain planning and management software.
- Managed customer information and licenses in Salesforce for purchases/renewals, projects, and training initiatives.

Ford Motor Company   Dearborn, MI
Service & Engineering Operations Intern   *Jun – Aug 2020*
- Developed dashboards, using R and Tableau, to analyze and visualize data to assist in decision making
- Implemented predictive analytics in Tableau dashboard to forecast future sales.
- Integrated HTML, CSS, and JavaScript into program to enhance appearance and quality of the dashboard.
- Utilized Alteryx to automate the collection and processing of relevant data from multiple sources.

Forvia (Formerly Faurecia Interior Systems)   Saline, MI
Financial Analyst Intern   *Mar 2019 – Jun 2020*
- Supported the capital maintenance of $178M of new and existing assets and tooling for a 1.4M square-foot injection molding and assembly plant.
- Developed macros using VBAs to streamline financial reporting to support decision-making by key leaders.
- Supported integration of RFID tracking system to improve the identification process of tool/asset location.
- Tasked with completing 10 month-end closing entries each month.

Sales Analyst Intern   *June 2018 – March 2019*
- Utilized SAP to create pricing/scheduling agreements for production & service parts across 8 manufacturing plants.
- Audited system data using Excel to compare Ford's WebQuote system and SAP to ensure accuracy of information.
- Developed text and video job training documentation to facilitate continuity after employee transitions.

Education
Wayne State University, Detroit, MI   *Estimated Graduation: Dec 2026*
Master of Data Science and Business Analytics

University of Michigan, Ann Arbor, MI   *70% Complete*
Master of Applied Data Science   GPA: 3.5
Notable Coursework: Efficient Data Processing, Scalable Data Processing, Information Visualization, Visual Exploration of Data, Data Manipulation, Data Science Ethics, Supervised/Unsupervised Learning

Eastern Michigan University, Ypsilanti, MI   *Sep 2017 – Dec 2020*
Bachelor of Business Administration - Accounting & Information Systems   GPA: 3.42

Skills
Programming: Python, SQL, HTML/CSS, Terraform, R, JavaScript, Git, VBA
Data Engineering & ETL: Apache Airflow, BigQuery, Hadoop/Hive, GCP, AWS, PySpark, APIs
Business Intelligence & Visualization: SAP, Power BI, Tableau, QlikSense, Salesforce
Automation & AI: Alteryx, PowerAutomate, GitHub Copilot, ChatGPT, CI/CD

Notable Projects
About Me Chatbot - https://github.com/ryanapierce/about-me-chat-bot
- AI-powered chatbot leveraging OpenAI's GPT-3.5-turbo to provide insights into my professional experience, skills, and projects. Built using AWS Lambda, API Gateway, Secrets Manager, and S3 for a scalable, serverless, and secure deployment. Frontend hosted on GitHub Pages for seamless user interaction.

Pair Trading Algorithm - https://github.com/ryanapierce/pair-trading-algorithm
- Analyzes stock price data to identify statistically significant asset pairs, monitoring price spreads, and executing trades based on predefined criteria, leveraging Yahoo Finance data and advanced visualization techniques. Part of the University of Michigan coursework in Milestone 1.