

# Barry V. Martin

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## Summary

Experienced Sr. Data and MLOps Engineer with expertise in building production-grade ML pipelines, automating infrastructure, and developing scalable inference workflows using AWS SageMaker, Airflow, Snowflake, Docker, and Terraform. Proven success in collaborating with data scientists to deploy models, monitor model health, and create supporting data pipelines.

## Experience

- **Lead Data Engineer (MLOps), Zelis**

**Remote • August 2021 – Present**

- Lead MLOps and data engineering initiatives to operationalize AI/ML solutions using Snowflake, AWS, and Airflow.
- Designed and deployed end-to-end ML pipelines leveraging AWS SageMaker, Docker, and Airflow.
- Developed model monitoring dashboards using Streamlit and integrated metrics collection workflows.
- Automated AWS infrastructure with Terraform, enabling scalable and reproducible deployments.
- Built and containerized inference workflows, managing deployments via ECR, ECS, and Lambda.
- Collaborated with data scientists to productionize ML models and deploy scalable, maintainable systems.
- Designed data pipelines integrating Snowflake and orchestrated with Apache Airflow.
- Developed Spark pipelines to support large-scale data processing.

- **Sr. Data Analyst, CH Robinson**

**Remote • January 2014 – August 2021**

- Conducted exploratory data analysis in Jupyter to derive actionable insights.
- Built interactive dashboards with Plotly, Streamlit, Power BI, and R Shiny.
- Optimized SQL queries across SQL Server, Postgres, and Hive databases.
- Developed Python-based ETL and reporting solutions.
- Ensured data integrity through integration of disparate data sources.
- Worked cross-functionally to translate business needs into data-driven outcomes.

## Skills

- **Programming & Data Engineering**
  - Python (including scientific packages), Airflow, SQL, Docker, Bash scripting
- **AWS Services**
  - AWS SageMaker, ECS, ECR, Lambda, IAM, RDS, Glue, EMR
- **CI/CD**
  - Terraform, Github Actions
- **Data Platforms**
  - Snowflake, Postgres, Spark, SQL Server, Database Design
- **Analytics & Monitoring**
  - Streamlit, Jupyter, Plotly, Inference Workflow Design, Model Monitoring

## Portfolio

- [Daily High Temp Prediction](#) – Predicting daily high temperature for my location
  - [Daily High Prediction Frontend](#) – View predictions
  - [Medium Article](#) – In regard to making predictions
- [Ambient Weather Station Data Collection](#) - AWS infrastructure for storing weather data
  - [Weather Station Data Frontend](#) - View current weather station data
- [Ambient Wx API Wrapper](#) - Python wrapper around Ambient API with meteorological units
- [WxChatAI](#) – Friendly AI Weather Assistant
- [Sentiment Analysis \(Airflow Demo\)](#) – Sentiment analysis pipeline demo
- [Personal Website](#) – Source code
- [Weather Code Lab YouTube Channel](#) – Channel for writing weather code

## Education

### University of Massachusetts Lowell

- B.S. Information Technology
- Focus on programming and relational databases

### University of Oklahoma

- Focus on programming and relational databases
- Research assistant at NSSL, minor in Mathematics