

JARED MAHOTIERE

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SUMMARY

Data engineer with hands-on pipeline and ML forecasting experience across Kafka, Spark, Airflow, and AWS, plus strong SQL optimization fundamentals from production systems work.

EDUCATION

Purdue University - B.S. Electrical Engineering Technology (Computer Engineering Technology)

Minor: Computer & IT | Certificate: Entrepreneurship & Innovation | Expected May 2026

SKILLS

Python, SQL, PySpark, C# | Kafka, Airflow, Redshift, S3, Great Expectations | PostgreSQL, SQL Server, Redis | scikit-learn, XGBoost, Prophet, pandas, Streamlit | Docker, Terraform, GitHub Actions, AWS (ECS, ECR, MSK, EMR, MWAA)

EXPERIENCE

Nucor Corporation - Software/Automation Engineering Intern | Darlington, SC | May-Aug 2024 and May-Aug 2025

- Built C#/.NET services integrating SQL Server and QMOS; reduced critical report runtimes 70-90% through indexing and query refactors.
- Shipped Blazor/.NET real-time operator dashboards with resilient UI state and consolidated KPI views for plant visibility.
- Added about 240 unit/integration tests (xUnit), CI quality gates, health checks, and structured logging to improve deployment confidence.
- Delivered automated reporting and alerting with Quartz.NET idempotent jobs, retry/backoff logic, and legacy VB to .NET/Blazor migrations.
- Supported industrial automation workflows tied to PLC/HMI production systems in a steel manufacturing environment.

PROJECTS

IoT Streaming ETL Pipeline - Kafka, PySpark, Airflow, Redshift

- Built streaming ETL with 100+ events/sec ingestion, data quality validation, medallion architecture, and production monitoring/alerting.

Retail Sales Forecasting Dashboard - Python, XGBoost, Prophet, Streamlit, AWS ECS

- Delivered forecasting and segmentation models with production API/dashboard deployment, feature engineering, and MAPE/R2 performance tracking.

workflow-orchestrator - TypeScript, Redis Streams, Postgres

- Demonstrated distributed queue orchestration patterns transferable to robust data processing systems.