JARED MAHOTIERE

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SUMMARY

Data engineer with hands-on pipeline and ML forecasting experience across Kafka, Spark, Airflow, and AWS, plus production SQL Server/QMOS data management experience.

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

- Managed and analyzed production data in SQL Server/QMOS databases; developed optimized queries and recommended new tables/columns to support process improvement.
- Developed and maintained Blazor/.NET real-time operator dashboards and robust back-end services, enhancing process transparency and improving steel production workflows.
- Built automated reporting and alert systems using Quartz.NET with real-time email notifications for maintenance and quality events, reducing manual monitoring and accelerating response.
- Migrated legacy Visual Basic applications to .NET/Blazor, reducing technical debt; utilized Git for version control, peer code reviews, and codebase integrity.
- Collaborated with production teams and led project meetings; conducted comprehensive testing and validation with multi-disciplinary stakeholders while prioritizing deliverables and shipping on time with high safety and quality standards.

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.