JARED MAHOTIERE

Jared Mahotiere | Bear, DE | (302) 803-7673 | jmahotie@purdue.edu | linkedin.com/in/jared-mahotiere | github.com/jmahotiedu

SUMMARY

.NET and industrial software developer with production Blazor experience, SQL Server tuning, automation tooling, and real-time dashboard delivery in manufacturing environments.

EDUCATION

Purdue University - B.S. Electrical Engineering Technology (Computer Engineering Technology)
Minor: Computer & IT | Certificate: Entrepreneurship & Innovation | Expected May 2026
Relevant Coursework: Industrial Controls, DAQ, Systems Development, IT Architecture, Network Engineering

SKILLS

C#, .NET 8, ASP.NET Core, Blazor, Entity Framework | SQL Server, T-SQL, PostgreSQL, Redis | xUnit, CI/CD, GitHub Actions | TypeScript, React, Next.js | Docker, AWS

EXPERIENCE

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

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

PROJECTS

Feature Flag Platform - TypeScript, Node.js, Redis, React

- Built multi-tenant control-plane patterns including deterministic rollout logic, RBAC, idempotency, and operational observability.

workflow-orchestrator - TypeScript, Redis Streams, Postgres

- Implemented queue-driven workflow execution with durable state, retries, and distributed worker coordination.

syncboard - Next.js, Socket.IO, PostgreSQL

- Built real-time full-stack collaboration features with optimistic UI updates, presence tracking, and conflict handling.