JARED MAHOTIERE

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SUMMARY

.NET and industrial software developer with production Blazor experience, SQL Server optimization, automated reporting, real-time dashboard delivery, AWS ECS platform deployments, and open-source backend contributions.

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

LEADERSHIP & ORGANIZATIONS

Delta Tau Delta (Campus Chapter): DEI Chair | **National Society of Black Engineers (NSBE):** Member

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 (ECS Fargate, ALB, RDS, ElastiCache)

EXPERIENCE

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

- Led system integration projects: scoped, specified, and coordinated implementation of new automation systems, ensuring seamless startup, cross-team adoption, and operational reliability.
- 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.

PROJECTS

Event Stream Platform - C#, .NET, WebSocket, WAL, Prometheus

- Built a durable event ingest/replay platform with WAL-backed persistence, materialized views, deterministic backfill tooling, and production observability.

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

- Built multi-tenant control-plane patterns including deterministic rollout logic, RBAC, idempotency, operational observability, and a reproducible load-test harness; deployed on AWS ECS Fargate with ALB, RDS Postgres, and ElastiCache Redis.

workflow-orchestrator - TypeScript, Redis Streams, Postgres

- Implemented queue-driven orchestration with DAG validation, durable run/task state, worker retries, and dead-letter handling for reliability.

OPEN SOURCE CONTRIBUTIONS

- PicoClaw (Go): merged PRs include provider protocol-family refactor (#213) and device-code auth interval fix (#56); security/reliability follow-up PRs remain open (#211, #251).
- Open PRs: Databricks CLI (#4504) auth-resolution fix; Google langextract (#359) cache-key hashing fix.