

NICHOLAS CARVALHO

Web Applications Developer

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SUMMARY

Software Developer with 3+ years developing manufacturing applications and full-stack solutions using C#/.NET Core, React, and database technologies. Proven experience building multi-tenant systems serving 200+ users, real-time monitoring dashboards, and mobile applications for industrial environments. Expertise with product configuration systems, equipment monitoring, and manufacturing workflow optimization in agile development environments.

SKILLS

C#/.NET Core, JavaScript, TypeScript, React.js, React Native, HTML/CSS, Node.js, MySQL, SQL Server, Azure DevOps, Git, Visual Studio, Visual Studio Code, REST APIs, SignalR, Entity Framework, Docker, Postman, CI/CD Pipelines, Database Design, Performance Optimization

EXPERIENCE

Web Applications Developer

Paris, ON

Tigercat Industries Inc.

10/2022 – 07/2025

- Developed multi-tenant web portal using C#/.NET Core and MySQL serving 200+ users across 15+ organizations with role-based access control, product configuration management, and optimized database performance
- Built React Native mobile application deployed to 30+ field technicians with offline data storage and real-time data synchronization
- Created real-time equipment monitoring dashboards using JavaScript and SignalR for live production data visualization, quality control metrics, and system reliability
- Implemented CI/CD pipeline with Azure DevOps reducing deployment time by 60%, eliminating manual errors, and supporting multi-facility operations
- Integrated REST APIs connecting third-party systems with internal services for seamless data flow and equipment monitoring
- Optimized database performance through SQL query optimization and indexing strategies improving response times by 40% for complex product configurations
- Mentored junior programmers through code reviews and established coding standards accelerating team productivity and skill development
- Delivered 3+ major software releases on schedule through agile methodologies, stakeholder collaboration, and cross-functional project management

EDUCATION

Computer Programming Diploma

Sheridan College

Oakville, ON

10/2020 - 04/2022