

# Tyson Hoops

## Software Engineer

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## Summary

Developer with seven years of programming experience and almost four years as a professional Full Stack Developer progressing into a lead role. Demonstrated ability to build dependable backend architecture paired with intuitive interfaces.

## Key Achievements

### Promoted to Project Lead

Recognized for deep system knowledge and strong ownership; took on cross-team coordination and decisionmaking while continuing active development.

### Rebuilt Production System in Under 4 Months

Redesigned and redeveloped the company's core platform from the ground up, replacing a legacy implementation with a more scalable and maintainable solution.

## Work Experience

### Remote Monitoring Lead (09/2021 - 03/2025)

#### Valid Manufacturing

- Led a team in building and maintaining a web-based remote monitoring system for over 100 industrial field units, transmitting real-time data.
- Developed responsive user interfaces using React, Tailwind, Material UI, and Shadcn.
- Developed and maintained user authentication and APIs with Express.js and MySQL.
- Created data parsing scripts for processing unit telemetry data in Python.
- Implemented alarm notifications via email and SMS, enabling rapid response to critical equipment events.
- Collaborated with stakeholders to ensure robust and scalable deployment.
- Scoped and provided outlines for new tasks along with timelines.
- Promoted to Project Lead within two years.

### Software Engineer CO-OP (05/2021 - 08/2021)

#### Metl

- Developed a Microsoft Teams bot for Metl using the Microsoft Bot Framework and Azure services.
- Implemented proactive messaging to notify users about upcoming scheduled meetings.
- Designed and integrated icebreaker question features to improve meeting engagement.
- Worked within an active production environment to integrate new Teams functionality into existing systems.
- Collaborated with a team to extend and maintain an existing codebase while ensuring compatibility with current infrastructure.

## Led Major Feature Expansions and System Overhauls

Continuously improved core systems with large-scale updates, new functionality, and long-term architectural enhancements.

## Technical Skills

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### Frontend

- React, [Next.js](#), Typescript, Javascript, HTML, CSS, PHP, Tailwind, Shadcn

### Backend

- Express.js, Node.js, MySQL, Python

### Other

- Web Socket's, C#, .Net, C++, Java, Git, Lua

## Soft Skills

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- Time management
- Quick learner
- Problem-Solving
- Team collaboration
- Project leadership
- Continuous learner
- Self starter

## Education

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**Information and Computer Systems Technologist Diploma** 09/2019 - 08/2021

[Camosun College](#) Victoria, BC

**High School Diploma** 06/2017

[Salmon Arm Secondary](#) Salmon Arm, BC

## Projects

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### **The Wheel Widget ([thewheelwidget.com](#))**

Interactive streaming overlay that allows viewers to join a wheel via chat; streamers spin to randomly select a viewer.

- Built with Next.js, using WebSockets for real-time communication between the streamer's browser source and server.
- Custom backend integrates with Twitch IRC to listen to chat messages and manage join events.
- Includes a fully customizable interface, multiple wheel support, effects, and manual entry editing via a web dashboard.

### **Volume Interface**

A physical device to control the volume of applications and devices on your computer.

- Taught myself how to design electrical schematics and work with PCB manufactures for production.
- Wrote custom firmware to control the device and interface with the host computer.
- Created the desktop application in C# with .Net and AvaloniaUI to respond to events from the device.
- Learned how to use CAD software to design and 3D print custom enclosures.