

# Harman Hayer

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## EXPERIENCE

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### IT Support Specialist Intern

June 2024 – Aug. 2024

*Métis Nation British Columbia (MNBC)*

*Surrey, B.C.*

- Utilized HappyFox ticket management software to efficiently diagnose and resolve hardware, software, and network issues
- Create scripts and use IT management tools to identify and address technical problems with a range of devices including computers, printers, and peripherals
- Provided clear and detailed communication to physical and remote users and clients with TeamViewer to ensure swift resolution

### Full Stack Software Engineer Intern

May 2022 – Aug. 2022

*Article*

*Vancouver, B.C.*

- Implemented an invoice search function using Vue.js, resulting in an estimated annual cost saving of \$1,300 by reducing manual processing time
- Resolved a critical cross-border invoicing issue in the proprietary Warehouse Management System, ensuring compliance and accuracy, using Java & MySQL
- Achieved over 88% code coverage by creating comprehensive unit tests with JUnit and Spring Boot Tests, significantly improving code reliability and reducing bugs

## EDUCATION

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### Thompson Rivers University

Kamloops, BC

*Bachelor's Degree in Computer Science*

*Sept. 2023 – Apr. 2025 (Expected)*

### Kwantlen Polytechnic University

Surrey, BC

*Associate Degree in Computer Information Systems*

*Jan. 2019 – Aug. 2020*

## PROJECTS

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### Peak Fitness App | Java (Android) - Swift, SwiftUI (iOS) - TypeScript, Next.js (Website)

<https://peak.hhayer.ca>

- Native Android & iOS mobile application with a minimalist design pattern to allow users to save daily workouts, compare their progress to past workouts, monitor sessions, and download CSV files containing workout log data
- Currently in development

### Computer Vision Speed Detection Camera | Python, OpenCV

<https://github.com/herculeshayer/computer-vision-opencv>

- Detect and analyze pedestrians, bicycles, vehicles, and illustrate speed of objects using YOLOv8 Ultralytics
- Videos and images of vehicles exceeding a threshold are saved for later analysis

### MiniDoro | React.js, Sass, Node.js, Express.js, JWT, SQL, Netlify, Supabase

<https://minidoro.hhayer.ca>

- A single page web application (SPA) that allows users to time and log work intervals they have completed
- Client/Server architecture complete with user login functionality using JSON Web Tokens, and user login authorization using Bcrypt
- Node server hosted on Render - User data saved in PostgreSQL on Supabase

## TECHNICAL SKILLS

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**Languages:** Java, Python, Swift, JavaScript/TypeScript, SQL (MySQL, Postgres, Oracle)

**Frameworks:** Next.js, Gatsby.js, Node.js/Express.js, SwiftUI, JUnit, Spring Boot

**Developer Tools:** Git, Figma, AWS, Docker, Linux/Unix, Jira, Android Studio, VS Code, Visual Studio, IntelliJ

**Libraries:** React.js, OpenCV