

# Timothy Healey

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## Skills

Coding: C++, C, Java, Kotlin, Python, JavaScript, SQL

Frameworks and Tools: PyTorch, Spring Boot, Kubernetes, Numpy, GDB, MySQL, React, Git, Bash

## Education

### *Bachelor of Science in Computer Science*

Western Michigan University

2020-2024 | GPA: 3.60 | Kalamazoo, MI

Grand Valley State University

2019 – 2020 | GPA: 3.93 | Grand Rapids, MI

## Experience

Associate Software Developer 2

*Auto Owners Insurance* | Grand Rapids, MI | May 2024 – Present

- Develop, test, and maintain Java applications within an enterprise codebase. Design and deploy RESTful API's in both Java and Kotlin. Enhance application functionality by adding new features and refining existing ones. Collaborate with business analysts to implement requested features. Make database changes in production with SQL queries.

Software Engineering Intern

*TGW North America* | Grand Rapids, MI | May 2022 – August 2022

- Developed C# code for industrial automated equipment, while working in an agile team. Responsibilities included writing, reviewing, and validating test cases, as well as contributing to bug fixes.

Course Assistant

*Western Michigan University* | Kalamazoo, MI | January 2022 – April 2022

- Provided one on one tutoring for computer science and math students. Helped students build better study habits and prepare for exams.

## Projects

Autonomous RC Car Build | Embedded Systems & Machine Learning | Kotlin & Python | Ongoing

- Designed and developed a Raspberry Pi-powered autonomous RC car, capable of operating in both manual (laptop-controlled) and autonomous modes. Developed a Kotlin application on the laptop to produce and monitor live telemetry data, facilitating real-time control and data analysis. The car uses a Convolutional Neural Network to predict steering angles with PyTorch and all of the embedded programming for this is currently handled through Python.

Goalie Stat Tracker | Mobile App Development | React Native | Fall 2023

- Developed a mobile application to allow hockey goalies to track and analyze their performance statistics. The app enables users to access a history of their past games and provides statistics. published on the Google Play Store and gained over 1000 users. Unfortunately, the app is no longer available to download.

Formula FSAE Club | Embedded Systems | 2022

- Programmed racing car components using Arduino and ESP32 boards, enabling communication via CAN Bus messages. I also designed and installed the wire harness for the car.