Timothy Healey

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Skills

Coding: Java, Kotlin, C++, Python
Frameworks and Tools: Spring Boot, JUnit, Mockito, Splunk, PyTorch, Android SDK, Kubernetes, MySQL

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 and maintain Java and Kotlin applications, focusing on building and deploying RESTful APIs and microservices using Spring Boot. Design scalable solutions to enhance application functionality, implementing new features and fixing previous implementations. Collaborate closely with business analyst and stakeholders. Manage and implement database changes in production using 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 and peer programing on larger epics.

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 Convoluted Neural Network to predict steering angles with PyTorch and all of the embedded programming for this is currently handled through Python. I am currently working on rewriting the embedded systems in Rust.

Goalie Stat Tracker | Mobile App Development | React Native & Javascript | 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 has since been taken off the Google play store.

Formula FSAE Club | Embedded Systems | 2022
- Programmed racing car components using Arduino and ESP32 boards, enabling communication via CAN Bus messages. Worked in a team to design and install the wire harness for the car.