Timothy Healey

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Skills

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

Frameworks and Tools: PyTorch, Numpy, OpenCV, GDB, MySQL, React, React Native, HTML, CSS, 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

Brooksource | Contracted with Auto Owners Insurance | Grand Rapids, MI | May 2024 – Present

- I develop, test, and maintain Java applications. Work with an existing Java codebase and enhance it by adding new features and refining previously added features. I collaborate with business analysts to implement new features that have been requested.

Software Engineering Intern

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

- Developed C# code for industrial automation, 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

- Tutored computer science and math classes. Helped students form better study habits.

Projects

Autonomous Car Lane Detection and Object Tracking | Machine Learning | Python | Summer 2024

- I am currently working on a personal project that implements a Convolution Neural Network to detect the road lanes, and YOLO for object detection.

Roguelike RPG | Video Game Development | C++ | Spring 2024

- Used C++ and the SFML library to create a RPG game. Developed the game with OOP principles. The game allows players to pick up, equip and use items, use and learn abilities, and attack off waves of enemies.

Loaves and Fishes Admin Website | Web Development | React/Python/SQL | Spring 2024

- As the team lead of a 6-person group, I collaborated with a local food pantry to develop a scheduling website using React, Python, and MySQL. The site allows admins to manage accounts, schedule shifts, view statistics, and check people in and out, while users can view their shift history and statistics.

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, with over 1000 users currently. Engaged with user reviews to gather feedback, incorporating suggestions in updates to refine the app's functionality.