

Trevor Harkness

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EDUCATION

University of Michigan, Ann Arbor, MI

Expected Graduation: December 2020

Bachelor of Science in Computer Science

GPA: 3.5/4.0

Coursework: Parallel Programming (CUDA), Web Systems, Data Structures & Algorithms, Game Design and Development

SKILLS

Languages: C++ (proficient), Python (knowledgeable), C# (knowledgeable), JS (knowledgeable), C (prior experience)

Frameworks: VS 2017, VS Code, Git, Bash, WSL, React, Cypress, AWS, Node.js, Unity

EXPERIENCE

MI Symptoms

April 2020-Present

Software Engineer in Test

- Developed Cypress tests to verify functionality of React app for state-sponsored COVID-19 tracking
- Performed code coverage analysis in coordination with development team to examine system flow
- Reviewed code & design documentation to resolve bugs and suggest changes based on user interviews

Robert Bosch GmbH

December 2019-Present

MDP Software Engineer

- Utilized classical computer vision and machine learning techniques to automate event labelling in test drive videos
- Communicated with Bosch engineers to develop requirements and receive feedback on design choices
- Developed year-long project plan and tracked team progress through Jira

University of Michigan School of Information

May 2019-August 2019

Assistant in Research

- Maintained block-based coding application for teaching high-school students computer science fundamentals
- Mentored local-area students in programming and fabrication through the Upward Bound program

PROJECTS

Janitoria

- Developed C# scripts in Unity for player movement, attacks, and enemy behavior
- Led five-person team in the production of beat'em-up survival game
- Demoed game at virtual showcase event, placing 7th out of 20+ eligible games in public voting

OpenRCT2

- Improved maintainability of open source code through removal of anti-patterns
- Performed continuous integration tests to ensure code compatibility and adherence to project standards

Insta485

- Developed Instagram-like website with React and JavaScript with dynamic pages and infinite-scrolling
- Handled website routing using the Flask web framework and Python

LEADERSHIP

Michigan Animation Club

May 2018-Present

Club Officer

- Led weekly club meetings, curated short film screenings and planned social events
- Mentored students on animation techniques and provided support with creative software

HONORS

National Merit Scholar

March 2016

Eagle Scout Award

February 2016