

# JOSEPH HOWARD

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## EDUCATION

University of Michigan, Ann Arbor

Sep. 2014 – Dec. 2020

- Bachelor of Science in Computer Science
- Relevant Coursework – Operating Systems, Web Design, Cryptography, Computer Security

## PROJECTS

Insta485 - An Instagram Clone

- Designed a REST API for use by client-side React JavaScript
- Created a dynamic web server with Python utilizing the Flask framework
- Using Flask, safely constructed and executed SQL queries through SQLite3
- Implemented sessions and access control for specific routes through browser cookies

Networked File Server

- Constructed a multi-threaded file system using the C++ thread facilities which allowed for parallel access from different client programs while preventing race conditions.
- Created a robust set of unit tests to verify program correctness and aid in debugging
- Utilized BSD sockets to implement an API for client programs to interact with a remote file server.

## EXPERIENCE

Best Buy

Rochester Hills

*Sales Associate*

Jun. 2018 – Dec. 2018

- Assisted clients with various levels of knowledge on different types of computers
- Tailored pitches and information to every customer to assist in the best way possible
- Collaborated with coworkers to exceed all sales goals

University of Michigan

Ann Arbor, MI

*Media Assistant*

Sep. 2014 – May 2018

- Debugged various technical theatrical systems
- Brainstormed solutions for problems with limited time and resources
- Worked within strict bounds of the space to deliver a satisfying experience for the performers and the audience

Avondale High School

Auburn Hills, MI

*Auditorium Supervisor*

Dec. 2014 – Aug. 2015

- Directly supervised a crew for technical theatrical design for various groups of renters
- Collaborated with a team to execute designs accurately and efficiently for performances
- Managed conflict arising from mismatched expectations between workers and renters

## SKILLS

Programming – Python, C++, C, JavaScript, Java, React, SQL, REST APIs

Computing – MS Office suite, Linux, Windows, Android, Git version control

Other – Collaboration, interpersonal, sales, troubleshooting

## ACTIVITIES

Boy Scouts of America – Eagle Scout

Jun. 2006 – Nov. 2013