

# Eashwar Mohan

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## Education

### University of Michigan - Ann Arbor

BSE in Computer Science/Minor in Music

- GPA: 3.810

*Expected Graduation May 2020*

## Employment

### Crowds and Machines Lab at the University of Michigan

*Ann Arbor, MI*

Technical Lab Assistant

*January 2019 – Present*

- Educate undergraduate researchers on various tools and skills, such as version control, and software architecture
- Hold office hours to assist researchers with technical problems
- Update and maintain various developer tools used by the lab

### TechSmith Corporation

*Okemos, MI*

Software Engineer Intern

*May 2018 – August 2018*

- Participated in updating Camtasia, a video editing program made for creating presentations and video tutorials.
- Programmed new features and resolved bugs for Camtasia, using MFC (C++), WPF (C# + XAML) as well as a C++ business logic layer.

### Delta Dental of Michigan

*Okemos, MI*

Software Engineer Intern

*June 2017 – August 2017*

- Integrated Open ID Connect (OIDC)/SecureAuth with desktop and web applications
- Designed and implemented a REST API using the Java Persistence API (JPA), and Enterprise JavaBeans (EJB)

## Projects

### Super MIDIo Bros.

*GitHub: eashwar/super-midio-bros*

An application that allows you to control level 1-1 of Super Mario Bros. by playing the overworld theme on a MIDI keyboard to control Mario. Made for MHacks 11. Frameworks used:

pygame, pyautogui

### now-playing: Spotify control for Bash

*GitHub: eashwar/now-playing*

Command line tool allowing for the control of basic Spotify playback on the Bash shell.

Frameworks/Tools used: ExpressJS, Shell Scripting

### Music Composition

*soundcloud.com/eashw*

Composed and arranged songs performed electronically and live using the DAW Reaper, piano, clarinet, and bass clarinet.

### Personal Website

*eash.fyi*

A personal website displaying a full list of past and current projects. Frameworks used:

Bootstrap, Jekyll, JQuery, MathJax

## Activities

### Video Game Music Club

Speaker/Director of Online Communications

*January 2018 – Present*

- Lead discussions and workshops on video game music analysis, music theory, composition, and music production
- Manage mailing lists, online calendar, Discord server, and social media for the club

### FIRST Alumni and Mentors Network at Michigan (FAMNM)

Treasurer (2018-Present) & Member (2017-18)

*September 2017 – Present*

- Fundraise over \$25,000 to establish an endowed scholarship for FIRST alumni at the University of Michigan
- Coordinate the 2018 FIRST Robot Quick Build held at the University of Michigan North Campus in January
- Draft and submit funding proposals to facilitate the improvement FAMNM events

### Michigan Hackers

Web Team Member

*January 2018 – Present*

- Develop the back-end for the Michigan Hackers website (michiganhackers.org) using the Go framework Gin.
- Attend weekly meetings to promote using CS for personal projects within the student body of U of M

## Skills

### Languages

- C++, Java, JavaScript, Python, C#, Go, XML, XAML, SQL, HTML/CSS, Markdown, LaTeX

### Tools/OSes

- Git, Bash scripting, PowerShell scripting, Windows Subsystem for Linux (WSL), Windows, OSX, Linux

### Music

- Cockos Reaper, Avid Pro Tools, MIDI sequencing, Clarinet Family (8 years), Piano (12 years), Composition (3 years)