

## EDUCATION

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**The Ohio State University**  
*Bachelor of Computer Science and Engineering*

Columbus, OH  
*August 2017 - May 2021*

## EXPERIENCE

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**Software Developer I**  
*TRC*

Columbus, OH  
*May 2021 - PRESENT*

- Develop QGIS and SPIDACalc plugins to aid in the auditing of utility poles around the United States, as well as creating smaller scripts to handle a variety of repetitive tasks throughout the company.

**Software Developer**  
*Funk Music Hall Of Fame*

Columbus, OH  
*January 2021 - May 2021*

- I worked on an engineering team to design a web app for the Funk Music Hall of Fame

**CCDS Decontamination Technician**  
*Battelle*

Houston, TX  
*June 2020 - August 2020*

- In-between semesters, I made myself essential over the course of the pandemic. During my time with Battelle, I worked with their CCDS operation in Houston. I took on the position of Safety Lead for the latter part of my time at Battelle.

**Classroom Operations Student Assistant**  
*Ohio State University*

Columbus, OH  
*October 2019 - April 2021*

- I develop teamwork as our small team of student employees help guarantee club spaces around campus are organized and I work with clubs to ensure spaces are used properly.

**Undergrad TA for CSE 1222 (C++ Programming course)**  
*Ohio State University*

Columbus, OH  
*January 2019 - May 2019*

- I taught students basic concepts in C++ programming for CSE professor Dr. Naeem Shareef

**Research Assistant (Website Manager)**  
*Ohio State University - Dr. Leonard Brillson*

Columbus, OH  
*November 2018 - May 2019*

- I semi-regularly update Dr. Leonard Brillson's (ECE Professor) website which allows me to get experience working with the CSE server on campus.

## PROJECTS

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**GPXtoHeatmap:** A python script that takes in a GPX file and outputs a heatmap of the points in the GPX file. The heatmap is generated using the Google Maps API. <https://github.com/TomCasavant/GPXtoHeatmap>

**GiphyMaubot:** A plugin for Maubot (a matrix chat bot) that allows users to search for gifs using the Giphy and Tenor API. <https://github.com/TomCasavant/GiphyMaubot>

**PollMaubot:** A plugin for Maubot (a matrix chat bot) that allows users to create polls in a matrix chatroom. <https://github.com/TomCasavant/PollMaubot>

**SpotifyTrackComparion:** A simple Java Swing application that allows you to compare the audio features of 2 songs using the Spotify API. <https://github.com/TomCasavant/SpotifyTrackComparison>

**Grouptivity:** A 3-person group project for a Mobile App Development course, that makes it easy to find and plan activities with a group <https://github.com/TomCasavant/CSE5236>

## PROGRAMMING SKILLS

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**Advanced Skills:** Python,Groovy

**Intermediate Skills:** Java,C++/C/C#,Ruby

**Beginner Skills:** Matlab