

Joseph Freedman

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EDUCATION

Michigan State University

East Lansing, MI

Masters of Science, Computer Science

August 2017 - May 2019

Bachelors of Science, Computer Science - GPA 3.68/4.00

August 2013 - December 2017

EXPERIENCE

Michigan State College of Engineering

East Lansing, MI

Teaching Assistant for CSE 231, Introduction to Programming (Python)

August 2016 - Present

- Facilitate weekly lab sessions for students focusing on learning basic programming concepts
- Answer questions and help students understand the fundamentals of software engineering
- Communicate with a team of TAs to ensure consistency in educational materials for a class of 600+ students

Humana

Louisville, KY

Applications Engineering Intern

May 2017 - October 2017

- Created a predictive model with PySpark to classify members based on use of Humana's digital resources
- Built and published a Nuget package in .NET to aggregate multiple data visualizations into a cohesive view
- Migrated Web Application CSS to SASS to allow for uniform styles to be more easily accessed for developers

Sirius XM Radio

Farmington Hills, MI

Software Validation Engineering Intern

May - August 2015, May - August 2016

- Wrote Ruby scripts to monitor and process channel information through an RF signal
- Part of an Agile Development Team that worked to build and maintain tools for head unit testing
- Used Github to collaborate with a team as well as verify and test code changes to an internal testing tool

Michigan State University

East Lansing, MI

Resident Assistant (RA)

January 2015 - May 2016

- Promoted community engagement for a floor of 40 residents
- Served as a resource for residents and provided necessary information for their success as students
- Engaged with a team of RAs to ensure a safe and inclusive community for all residents

PROJECTS

TechSmith Director (Senior Design)

Web application with a user friendly interface for creating video projects using voice input. Built with .NET Core MVC and leveraged Microsoft Cognitive Services for voice input and natural language processing.

NYC Parking Violation Analyzer

Utilized NYC Open Data project to determine likelihood of a parking violation in a user specified location. Built with Python and leveraged Google Maps API for distances between locations.

Dash Pictures

Hacked Amazon Dash Button to use as a remote shutter button for an iPhone camera. Built with Python and a jailbroken iPhone.