Joseph Freedman

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EDUCATION

Michigan State University   East Lansing, MI

Master of Science, Computer Science   *May 2019*

Bachelor of Science, Computer Science - GPA 3.68/4.00   *Dec 2017*

EXPERIENCE

Blue Medora   Grand Rapids, MI

Software Engineering Intern   *May 2018 - Aug 2018*

- Implemented a nearest neighbor search on monitored resource data to find similarities between resources
- Utilized D3 to visualize graph of connected resources to better illustrate similarities and differences

Michigan State College of Engineering   East Lansing, MI

Teaching Assistant for CSE 422, Computer Networks   *Jan 2018 - May 2018*

- Wrote and implemented socket programming hangman game for students to learn TCP/UDP programming
- Maintained frequent communication with instructor to manage course topics and grades for 60+ students
- Held weekly office hours to assist students with homework and projects

Teaching Assistant for CSE 231, Introduction to Programming (Python)   *Aug 2016 - Dec 2017*

- Facilitated weekly lab sessions for students focusing on learning basic programming concepts
- Communicated with a team of TAs to ensure consistency in materials for a class of 600+ students

Humana   Louisville, KY

Applications Engineering Intern   *May 2017 - Oct 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

Michigan State University   East Lansing, MI

Resident Assistant (RA)   *Jan 2015 - May 2016*

- 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

Yelp Review Prediction

Built and tested models to predict the star value of a given Yelp review. Set up Jupyter Notebook server using AWS for most effective collaboration with teammates. Built with Python and sci-kit learn.

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.

Dash Pictures

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