Joseph Freedman

joseph.a.freedman@gmail.com | 248.622.1321

EDUCATION

MICHIGAN STATE UNIVERSITY
MS in Computer Science
Expected May 2019
East Lansing, MI

BS in Computer Science
Graduated Dec 2017
East Lansing, MI
GPA: 3.68 / 4.0

LINKS

Github:// **jfreedman0**
LinkedIn:// **jfreedman0**
Personal:// **jfreedman.org**

COURSEWORK

GRADUATE
Pattern Recognition
Data Mining
Computer Vision
Artificial Intelligence*
Neural Networks*
Computer Security*

*Denotes currently enrolled

UNDERGRADUATE
Object Oriented Programming
Algorithms and Data Structures
Computer Architecture
Advanced Algorithms
Big Data Analysis
Databases
Computer Networks

SKILLS

PROGRAMMING AND TOOLS
Most Comfortable:
- Python
- Jupyter Notebook
- Pandas
- Numpy
- Unix Shell
- Matlab

Familiar:
- C/C++
- Javascript
- SQL
- AWS
- Kubernetes

EXPERIENCE

BLUE MEDORA
Software Engineering Intern
May 2018 – Present | Grand Rapids, MI
- Implemented a nearest neighbor search on monitored resource data to find similarities between resources
- Built a monitoring plugin to collect metrics about a host system to analyze impact of monitoring tools

MICHIGAN STATE COLLEGE OF ENGINEERING
Teaching Assistant for CSE 422, Computer Networks
Jan 2018 – May 2018 | East Lansing, MI
- 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
Aug 2016 – Dec 2017 | East Lansing, MI
- 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
Applications Engineering Intern
May 2017 - Oct 2017 | Louisville, KY
- 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
Resident Assistant
Jan 2015 - May 2016 | East Lansing, MI
- 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.

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