

Harvey M. Reeves

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EDUCATION

UNIVERSITY OF MICHIGAN, Ann Arbor, MI Expected Graduation - 2021
Bachelor of Science in Engineering in Computer Science, minor in Economics
Relevant Coursework: Data Structures and Algorithms, Discrete Math, Differential Equations

WYLIE E. GROVES HIGH SCHOOL, Beverly Hills, MI June 2018
GPA: 3.99/4
Relevant Coursework: AP Computer Science A, AP Calculus BC, Calculus 3

WORK EXPERIENCE

JUGAREA, iOS Development Team Lead January 2019- Present

- Led iOS app development team for startup devoted to community advocacy and communication.
- Executed vision of company by converting Angular web app to iOS app in Swift.
- Oversaw both technical progression of project in addition to adhering to deadlines and organization requirements.

LEVENTHAL LAB, Undergraduate Research Assistant September 2018-Present

- Worked alongside Dr. Daniel Leventhal of the University of Michigan Department of Neuroscience to develop an algorithm to classify changing motor skill levels in rats diagnosed with Parkinson's disease.
- Organized and analyzed raw data taken from videos in MATLAB and Python using a convolutional neural network for video classification.
- Compiled collected data into comprehensive presentations to be communicated to lab director in weekly meetings and to larger university community pending April 2019 symposium.

UNIVERSITY OF MICHIGAN AI GROUP, Summer Research Intern May 2017-August 2017

- Expanded capabilities of SOAR Cognitive Architecture prior to implementation into Unreal Engine 4 to create 3D games with self-controlled agents capable of learned decisions adapted from changes in their environments.
- Responsible for both independent coding and in-person presentation of work to team through weekly meetings.

PROJECTS

MACHINE LEARNING CLASSIFIER, C++ November 2018

- Devised a Bayesian classifier written in pure C++ to determine topics of piazza.com posts based on their content.
- Enhanced capabilities in creation of search-tree based data structures and memory management.

NATIONAL HONORS SOCIETY WEB APP, Python, Flask, SQL, AWS EC2 November 2017

- Developed Flask web app for Groves High School's branch of National Honors Society to assist me in my role as president.
- Increased meeting efficiency by allowing users to log hours in convenient and quick manner.
- Hosted on Amazon Web Servers EC2 Instance.

BATHROOM WALL SOCIAL MEDIA, Python, Flask, SQL June 2017

- Created an anonymous social media platform to learn data organization and implementation of web servers.
- Used Flask for web server framework to manage dynamic web pages and push/pull requests that access site's SQL database.

TECHNICAL SKILLS

Python, Numpy, Flask, Keras, Swift, iOS App Development, HTML, CSS, Amazon Web Services EC2, C++, Java, MATLAB, Adobe Creative Suite, Microsoft Office