Joseph Naro

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Education
University at Buffalo, The State University of New York
Computer Science, Bachelor of Science   August 2020
- Cum Laude
- Trip Leader – Outdoor Adventure Club

Notable Courses: Software Engineering, Web Programming, Machine Learning, Applied Deep Learning, Reinforcement Learning, Computer Vision and Image Processing, Distributed Systems

Projects
Grid World Environment (**Python**)
  – https://github.com/jfnaro/grid_world_env
- Created a program that generates deterministic and stochastic grid world environments for use with optimal path finding algorithms
- Rendered the environments, agents, and optimal paths using the turtle library
- Implemented dynamic programming to determine a set of optimal paths for any given environment to compare with uninformed algorithms

Image Planet (**Python, SQL, JavaScript, HTML, CSS**)
  – https://github.com/jfnaro/image_planet
- Developed a social media website using Flask and MariaDB to share messages and media in real time
- Coordinated workflow with a team of two other people utilizing Agile development and 3-week sprints to efficiently work independently
- Utilized teleconferencing software and a GitHub repository to work together despite conditions preventing us from meeting in person

Genrenator (**Python, HTML**)
  – https://github.com/jfnaro/genrenator
- Trained neural networks using features extracted from audio files and single target values
- Modified trained neural network to output probabilities of song genres allowing the users to find a song's genre influences and compare songs' genres more holistically
- Created a web application using Flask that allows users to interact with the trained model in an intuitive way and provide easily understandable breakdowns of model outputs

Converto (**Python, JavaScript, HTML, CSS**)
  – https://github.com/cse442-fall-2019-offering/442projects-goose
- Developed a web-based application to convert between units and provide a dynamic visualization to better understand the data
- Retrieved dynamic data using a REST API to obtain the latest currency conversion rates
- Implemented Agile development plan with a Scrum board and 4-week sprints culminating in managerial review

Work Experience
Lowe's Companies Incorporated, Binghamton, NY
Customer Service Associate II   October 2017-June 2018
- **Communicated with customers** to accurately address their individual needs
- **Developed plans** based on customer ideas and created **practical solutions** to a variety of problems
- **Utilized company's proprietary software** to deliver solutions to customers faster and increase sales of related items

Skills
Languages: Python, C, C++, SQL, HTML, CSS, x86/MIPS Assembly, JavaScript
Python Packages: TensorFlow, Keras, Scikit-learn, NumPy, Flask, Pandas, Matplotlib, Turtle