Joseph Leavitt

(772) 812-7473
JoeLeav1@gmail.com
https://github.com/JoeLeavitt

Education

University of Central Florida 2014 - 2018
Bachelor of Science in Computer Science GPA: 3.2/4.0

Skills

Languages: Python, Java, JavaScript, HTML, CSS
Frameworks and Libraries: Node.js, Socket.IO, Polymer.js, TensorFlow, TensorFlow Object Detection API, TFLearn, NumPy, OpenCV, fast.ai, PyTorch
Tools: AWS, Jupyer, Vim, Cron, Bash, Terminal, Linux, macOS, Windows, Git, IntelliJ IDEA, tmux, WinSCP
Deep Learning and Machine Learning: Object Detection, Object Classification, Gradient Descent, Logistic Regression

Work Experience

Harris Corporation — Software Engineer: Image Processing July 2018 - Present

- Built **Python** tool to automate Maritime data extraction, saving 2 - 5 days of manual extraction per week.
- Utilize in-house deep learning tools and **TensorFlow**'s Object Detection API to build models for detecting ships and types of ships in satellite imagery. (**Python** and **NumPy**)
- Spearheaded all 4 stages of the machine learning pipeline: data processing, feature engineering and selection, modeling, and optimization.
- Implemented a blur detection scheme from a research paper released by Microsoft Research Asia using **Python**, **NumPy**, **OpenCV**, and **PyWavelets**.
- Continuously researching and implementing deep learning techniques to improve the ship detection model by improving accuracy and handling overfitting.

SavvySuit — Software Engineer Intern May 2016 - November 2016

- Implemented a search and search filtering feature to check for conflicts of interest in a database of attorney clients using **JavaScript**, **Polymer**, and **Node.js**.

Lockheed Martin — Software Developer Intern August 2015 - May 2016

- Developed software in **C** and **C++** for a classified military missile program. Focused on bug fixes and code refactoring.

Projects

Knest — Team of 4 September 2017 - May 2018

- **Won 1st in Discipline (Computer Science)** at Florida's State-Wide Senior Design Showcase 2018.
- Knest is a desktop application that uses deep learning and image processing techniques to detect birds in large sets photos and enhance them. (**Python**, **TFLearn**, **TensorFlow**'s Object Detection API, **NumPy**, and **OpenCV**)

Collaboard — Team of 2 January 2016

- **Won 1st place** overall at PolyHacks Hackathon.
- Collaboard is a web application that consists of a interactive whiteboard and chat. (**JavaScript**, **Socket.IO**, and **Node.js** with **Express.js**)

Class-ify — Individual project November 2015

- **Won the education award** at KnightHacks Hackathon.
- Class-ify is a lightweight Chrome Extension that injects Rate My Professor ratings into the the UCF's class search page. (**JavaScript**)

Extracurricular

Grace Hopper Conference — Hopper October 4 - 6, 2017

- Nine hours of volunteer service at the world largest conference for women in computing.