

DANIEL SHATS

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Computer Science & Mathematics Double Major
University of Florida



PREVIOUS INTERNSHIP

Software Engineer & Data Scientist | Io-Tahoe

SUMMER 2017

- Built a tool used to benchmark any Linux server's disk speed using ssh
 - Programmed using python and bash
 - Tested on various Linux distributions using vagrant
- Researched and applied various methods of private data detection to get businesses working with Io-Tahoe to comply with GDPR regulations.
 - Compared a natural language processing approach VS a rules-based approach
 - Submitted a paper to the engineering team specifying the various methods investigated and which ones were most effective as well as my recommendation for further investigation.



TOOLS I AM VERY COMFORTABLE USING

- Python: pandas, matplotlib, scikit-learn, numpy, tkinter, OpenCV and other various python libraries
- C++, Java, Bash, Octave, Matlab, R
- Android Studio
- Firebase
- Linux



PERSONAL PROJECTS/ ACTIVITIES/ INTERESTS

- Swamphacks 2018 - Studybuddy Android Application
 - Allows users to walk into a study area (for example: Marston Library) and find others studying the same subject so they can study together.
 - Uses Java, Android Studio, Firebase.
- Raspberry pi security camera
 - Uses raspberry pi, camera, and a python script with OpenCV to detect faces and send me an email including a picture of the detected face.
- Kaggle Competitions
 - First completed Titanic competition achieving 80% accuracy and later began to investigate other competitions such as Music Recommendation Challenge.
 - Also, just recently joined UF's Data Science and Informatics club Kaggle Competition Team.
- Lead Engineer of SMT Forge Programming and Computer Vision Team
 - We are building a machine that will make it significantly cheaper and more efficient for hobbyists and small businesses to design and prototype circuit boards for their projects.
 - Currently the frame of the machine is completed, and the parts have all been finalized
 - We are begging to write and modify the software we need to get the camera to detect solder points and mount surface mount components.
- Courses Taken outside of School:
 - Completed half of Andrew Ng's course on Machine learning from Coursera (still in the process).
 - Completed Udacity's Intro to Machine Learning Course



RELEVANT SCHOOL COURSEWORK

- Data Structures and Algorithms
- Databases
- Discrete Mathematics
- Linear Algebra
- Natural Language Processing (currently taking)
- Computer Organization (currently taking)
- Software Engineering (currently taking)
- Numerical Analysis (currently taking)

