DANIEL **SHATS**

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Computer Science & Mathematics Double Major
Sophomore – GPA: 3.6 - 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
  - 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

- 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.
  - 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)