DANIEL
SHATS

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Computer Science & Mathematics Double Major
Graduating Spring 2020 - University of Florida
GPA: 3.63

WORK EXPERIENCE

Software Engineer & Data Scientist | Rokitt Astra
SUMMER 2017

- Built a tool used to benchmark any Linux server's disk speed
  - Written with python and bash and tested on various Linux distributions using Vagrant
- Researched and applied various methods of private data detection for GDPR compliance
  - Compared a machine learning approach to a rules-based approach
  - Presented results to the engineering team specifying the various methods investigated and which ones were most effective as well as recommendations for further investigation.

TOOLS

- Libraries: Pandas, Matplotlib, Seaborn, Scikit-Learn, PyTorch, Numpy, Tkinter, PyQt, OpenCV
- Languages: Python, C++, Dartlang, Java, Bash, Octave
- Other: Flutter, Firebase, Linux, Vagrant, SolidWorks

PERSONAL PROJECTS

- 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
  - Will detect faces of anybody walking into my room and will text me a picture of them in an attempt to keep roommates from stealing snacks from my minifridge.
  - Uses raspberry pi, camera, and a python script with OpenCV to detect faces and Twilio to send MMS messages.
- Hot_Budr mobile app
  - Game built with flutter, dartlang, and firebase. Works on both iOS and Android.
- Kitten
  - All-in-one habit tracking tool that anybody can use to keep track of and visualize their computer habits (cursor location, program and website use monitor, etc.)
  - Written with Python and utilized Numpy, Matplotlib, Seaborn, and PyQt.
- Kaggle Competitions
  - Achieved state of the art results on Cats and Dogs classification competition, Dog Breeds classification competition, as well as seedlings classification competition using deep learning. (All done after the competitions expired, as an exercise.)
  - Used FastAI library as well as PyTorch
- Courses Taken outside of School:
  - Completed Udacity's Intro to Machine Learning Course
  - Completed FastAI's Practical Deep Learning course

RELEVANT SCHOOL COURSEWORK

Computer Science:

- Databases, Natural Language Processing, Digital Logic, Software Engineering, Operating Systems, Math for Intelligent Systems

Mathematics:

- Sets and Logic, Discrete Math, Differential Equations, Abstract Algebra, Numerical Analysis, Linear Algebra, Advanced Calculus 1