DANIEL
SHATS

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Computer Science & Mathematics Double Major
Graduating Spring 2020 - University of Florida
GPA: 3.5

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. 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.

Researcher | University of Florida Machine Learning and Sensing Lab
SPRING 2019

- Will use a machine learning approach to write algorithms in Matlab and Python for detecting subsurface landmines.
- Will integrate existing code into the TUF framework to verify research results.

TOOLS

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

PERSONAL PROJECTS

- Swamphacks 2019 – Mobile Dating App for Dog Owners
  - Three-person project that used Flutter to provide a modern UI, and the Google Cloud Vision API to label images containing dogs.
- 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.
- 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, Modeling and Animation, Natural Language Processing, Digital Logic, Software Engineering, Operating Systems, Math for Intelligent Systems, Machine Learning

Mathematics:

- Sets and Logic, Discrete Math, Differential Equations, Abstract Algebra, Numerical Analysis, Linear Algebra, Advanced Calculus 1 & 2