.danielle smalls

💼 work experience

Data and Deployment Strategist | **2018|Current**
Uncharted Software

- Performer on DARPA's Memex Program assisting initiative to scrape the Dark Web for illicit activities
- Facilitated training for law enforcement to use tools that aid in anti-human trafficking investigations
- Performed full-stack data analysis to understand user base including feature construction, visualization, etc.

Data Scientist | IST Research   **2016-2018**

- Created new and modified existing tools to capture and analyze data gathered from hard to reach areas
- Integrated analytical tools into social media data collection pipeline (Twitter, Facebook, Youtube)
- Built and implemented the analytical structure for ground-truth surveys regarding human trafficking, maternal health, military withdrawal, and other socio-political issues
- Curated reports from active and passive monitoring architectures
- Applied hidden population estimator to gage prevalence of human trafficking

Undergraduate Research Assistant | **2013-2016**
Virginia Tech

- Re-designed survey tool to increase undergraduate response rates
- Facilitated data collection through interviews and "think-alouds"

📚 stack experience

ElasticSearch	Pandas	Numpy
tidyverse	Pytorch	NLTK
Shiny	Keras	AWS Lambda
Hugo	Plotly	gensim

💻 skills

R
Python
Machine Learning
Statistics

profile

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🎤 presentations

"Saying Yes: Reflections in the pursuit of a S.T.E.M career" | 2018
Keynote speaker for the 2018 cohort of C-Tech^2 hosted by Virginia Tech.

"Leading Ladies in STEM and Art" at George Washington University | 2018
Panelist for SUPERGirls Shine Foundation discussing female engagement and empowerment in STEM fields.

"Does Motivation Matter for Conceptual Change: Developing Effective Qualitative Research Approaches." | 2015
ASEE Annual Conference and Exposition.

"Do You Want to Take a Survey? Exploring Tools to Increase Undergraduate Student Response Rates to Real-Time Experience Surveys." | 2013 & 2014
Danielle Smalls, Dr. Holly Matusovich, Dr. Rachel Mccord
ASEE Annual Conference and Exposition (2014)
Conference on Higher Education Pedagogy (2013)

📖 education

B.S. Statistics | **2010-2016**
Virginia Polytechnic Institute &
State University

Current Related Coursework: Udacity Pytorch Scholarship winner. In pursuit of deep learning nano-degree.