#### **BARUCH TABANPOUR**

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## WORK

## Machine Learning Engineer – Squarespace

Feb 2017-Present

- Built python microservice framework with continuous deployment on Kubernetes for the first machine learning models in production at Squarespace.
- Internationalized text based search models in 6 languages (blog post).
- Search services for images and website templates on squarespace.com
- Benchmarking, modeling, and performance testing for image tagging and saliency detection services to be used for SEO/accesibility and image cropping suggestions.
- Anomaly service for site traffic chart annotations and push notifications.
- Created functional wrapper around Luigi for sharing datasets and building models.

#### Data Scientist - ondeck

July 2015-Jan 2017

- Built Fraud model with scoring service in production averting ~\$250k in fraud per quarter.
- Loss forecasting and time-to-default models based on payment and behavioral data.
- AB tests for email campaigns.

Research Assistant - Computer Vision - Columbia UniversityJune-Aug 2015Research Assistant - Physics - CUNY Laboratory for Nano and Micro PhotonicsJune-Oct 2013Summer Research Fellow - Physics - National Institute of Standards in TechnologyMay-Aug 2012Research Intern - Climatology - NASA Goddard Institute of Space StudiesMay-Aug 2010

### **TOOLS**

• Daily: Python, Tensorflow, Keras

• Infrastructure: Kubernetes, Docker, Consul/Prometheus, S3, Drone

• Familiar: R, MATLAB, HDFS/Spark

## PERSONAL PROJECTS

yarlp – yet another reinforcement learning package in tensorflow for RL benchmarking Joint image-text embeddings - mapping images and text into the same space using CCA Intro-to-Reinforcement-Learning - solutions to Introduction to RL by Sutton & Barto sinkhorn-knopp - implementation of Sinkhorn Knopp
Handwritten-generation - implementation of handwritten generation with RNNs climatechangebot - climate change chatbot

#### **EDUCATION**

# **Columbia University**

May 2015

M.S. Applied Physics and Mathematics – GPA: 3.87 / 4.00

## The City College of New York, Macaulay Honors College

Feb 2014

B.E. in Electrical Engineering, Minor in Physics – GPA: 3.96 / 4.00, Rank: 1/152