

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
- Modeling and performance testing for image tagging and saliency detection (in progress)
- Anomaly service for site traffic chart annotations and push notifications
- Functional wrapper around Luigi for sharing datasets and building models

Data Scientist – ondeck

July 2015-Jan 2017

- Fraud modeling 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 University

June-Aug 2015

[Research Assistant - Physics](#) – CUNY Laboratory for Nano and Micro Photonics

June-Oct 2013

Summer Research Fellow - Physics – National Institute of Standards in Technology

May-Aug 2012

[Research Intern - Climatology](#) – NASA Goddard Institute of Space Studies

May-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