

BARUCH TABANPOUR

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WORK EXPERIENCE

Risk Data Scientist – OnDeck

July 2015-Present

- Developed loss forecasting and time-to-default models based on payment and behavioral customer data.
- Trained fraud model (saving ~750k dollars per quarter) and developed unit tested model code running in production with real-time data validation.
- Pioneered testing framework for customer communications. Maintaining email, call, letter, and reporting scripts and ETLs, impacting thousands of customers daily.
- Helped standardize and uphold data and model validation standards, while productionizing model code.
- Server admin for modeling on AWS.

Developer – Columbia University

May-Aug 2014

- Led the development of an educational Django web application to facilitate Peer Instruction.
- The app was used in a physics course offered at Columbia during Fall 2014.

EDUCATION

Columbia University

May 2015

MS Applied Physics and Applied Mathematics
GPA: 3.87 / 4.00

The City College of New York, Macaulay Honors College

February 2014

Bachelor of Engineering (Electrical Engineering), Minor in Physics
GPA: 3.96 / 4.00, Summa Cum Laude

TECHNICAL SKILLS

- Daily Work: Python/Flask, R, SQL, Linux/Unix
- Familiar With: Vagrant, Docker, JavaScript/jQuery, HTML/CSS, MATLAB, Java

RESEARCH PROJECTS

Research Assistant – Columbia University

June-Aug 2015

- Experimenting with auto-encoders for rotation invariant image representations with Prof. Tony Jebara.

Web Developer – City Trek Senior Design

Feb-Dec 2013

Research Assistant – CUNY Laboratory for Nano and Micro Photonics

June-Oct 2013

Summer Research Fellow – National Institute of Standards in Technology, Boulder, CO

May-Aug 2012

Independent Study – CUNY Center for Advanced Technology

Dec-May 2012

Research Intern – NASA Goddard Institute of Space Studies, NYC

May-Aug 2010

PERSONAL PROJECTS

climatechangebot – m.me/climatechangebot, the first ever climate change chat bot!

sinkhorn-knopp – github.com/btaba/sinkhorn_knopp

Intro. to Reinforcement Learning – github.com/btaba/intro-to-rl

AFFILIATIONS & AWARDS

Co-organizer, Data Science Hackathon, March 2015 - datasciencehackathon.info

Secretary and Treasurer, Eta Kappa Nu Beta Pi Chapter, Honor Society of the IEEE, 2011-2013

Morin Foundation Engineering and Science Scholar at Macaulay Honors College, 2012

Brooklyn Technical High School Scholarship, 2009-2013

Association of the Old Crows Scholarship, 2011

Major Schultz 1925 Award for Outstanding Achievement in Engineering, 2009