BARUCH TABANPOUR
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EDUCATION
Columbia University   May 2015
MS Applied Physics and Applied Mathematics, PhD track
Relevant Coursework: Advanced Machine Learning, Modeling Social Data

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
- Software: Python/Django, SQL, R, MATLAB, Java, PHP, Linux/Unix, JavaScript/jQuery, HTML/CSS
- Hardware: C++, LabVIEW, PIC, Atmega
- Citizenship: U.S., France

EXPERIENCE
Lead Developer – **Columbia University**   May-Aug 2014
- Led the development of an educational Python/Django social media web application to facilitate Peer Instruction.
- The app was used in a physics course offered at Columbia during the Fall 2014.

Web and Database Developer – **City Trek, NYC**   Feb-Dec 2013
- Developed a bus tracking LAMP server, database, website, and phone application service for tracking City College buses and MTA subways.

Research Assistant – **CUNY Laboratory for Nano and Micro Photonics**   June-Oct 2013
- Developed MATLAB code to simulate measurements for light harvesting applications.
- Presented findings at CUNY research symposium.

Summer Research Fellow – **National Institute of Standards in Technology, Boulder, CO**   May-Aug 2012
- Collected and fit data in MATLAB and improved MATLAB code with GUI for faster usability.
- Created a novel LabVIEW program and measurement setup to run FMR on a superconducting magnet.

Independent Study – **CUNY Center for Advanced Technology**   Dec-May 2012
- Independently designed and tested Laser Interlock System to meet ANSI class IV laser safety guidelines.
- Programmed microcontroller in C++, while researching optical cloaking of metamaterials.

Research Intern – **NASA Goddard Institute of Space Studies, NYC**   May-Aug 2010

AFFILIATIONS
Co-organizer, Data Science Hackathon, March 2015
Secretary and Treasurer, Eta Kappa Nu Beta Pi Chapter, Honor Society of the IEEE, 2011-2013
Member, Tau Beta Pi, 2011-present

HONORS/AWARDS
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