Matthew W. Lawhon

(914) 336–7051 | mwl2131@columbia.edu

Education

Columbia College of Columbia University, New York, NY   Expected May 2021
    GPA: 3.72/4.00
    Bachelor of Arts in Mathematics, Concentration in Computer Science

Work Experience

Full Stack Developer Intern at IBM Z Analytics, Durham, NC   June 2019-Present
- Extended WatsonML-based SIEM web app to accommodate Splunk
- Developed RESTful Node.js backend with extensible DB solution to process and serve incoming analytics
- Modified Angular 6 dashboard frontend to create D3.js visualizations of data from backend
- Expanded Machine Learning anomaly prediction routines in Splunk
- Developed an app that deploys WatsonML image processing on floorplans and uses leaflet, a Javascript mapping library, to provide an interactive, searchable office map

Research Assistant at Columbia University, Palisades, NY   May 2018-December 2018
- Designed neural networks in Python for high accuracy wind prediction on 50M+ length data sets
- Cleaned 50M+ length data sets and created interpretive graphs for publishing results at the 2018 American Geophysical Union Conference

Intern at Young America Capital, Mamaroneck, NY   June 2015-July 2017
- Contacted 100+ potential investors with basic deal information and tracked progression of interest
- Compiled and managed contact lists of potential investors

Leadership

Columbia Outdoor Orientation Program, Leader, New York, NY   March 2018-Present
- Led group of six first year students on a week-long backpacking trip
- Managed logistic elements of trip such as water and food supply, navigation, gear maintenance

Sigma Phi Epsilon, Vice President of Programming, New York, NY   January 2019-Present
- Organize social events for 300+ attendees including securing venue, supplies, funding
- Chair of the programming committee which oversees community outreach events

Tools for Change, Lead Researcher, Port Chester, NY   September 2015-May 2017
- Public Policy think tank headed by Duke Sociology Professor and Researcher William Tobin
- Led presentation of data analysis findings to public officials and community members

Activities

TA for Number Theory and Cryptography, Making and Breaking Codes	September 2018-Present
Tutor – Algebra-Differential Equations, A.C.T. and G.R.E. Math	September 2014-Present
Columbia Bartending Agency	November 2018-Present
Beekeeper at the Cathedral of St. John the Divine	August 2018-Present
Guitar Teacher at Musical Mentors	February 2019-Present

Skills

Technical: Python (Machine Learning, Data Science, Climate Modeling), Java (Efficient Algorithms), C/C++, JavaScript, TypeScript, HTML/CSS, Git, Splunk, Agile, Linux

Interests: Backpacking, Bonsai, Bouldering, Jazz/Blues Guitar, Pottery, Sailing, Woodworking