

Matthew W. Lawhon

(914) 336-7051 | mwl2131@columbia.edu

Education

Columbia College of Columbia University, New York, NY

Expected May 2021

GPA: 3.64/4.00

Bachelor of Arts in Mathematics, Concentration in Computer Science

Work Experience

Full Stack Software Developer Intern at IBM Z, Durham, NC

June 2019-August 2019

- 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 Calculus I, Number Theory and Cryptography

September 2018-Present

Columbia Bartending Agency

November 2018-Present

Beekeeper at the Cathedral of St. John the Divine

August 2018-Present

Guitar Teach at Musical Mentors

February 2019-Present

Tutor – Algebra-Differential Equations, A.C.T. and G.R.E. Math

September 2014-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