

## EDUCATION

University of Chicago | Chicago, IL  
*Masters of Science in Computational Analysis and Public Policy*

Graduation: June 2021

Emory University | Atlanta, GA  
*Bachelor of Arts in Physics*  
*Bachelor of Arts in International Studies*

Graduation: December 2015

Awards: Sigma Pi Sigma, Physics Honor Society | Pi Sigma Alpha, Political Science Honor Society

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## SKILLS & TECHNOLOGIES

General Programming: Python, Javascript, Bash

Back-End: SQL, AWS (EC2, S3, SNS, SQS, Kafka, EMR, Lambda, Step Functions, DynamoDB), Hive, HBase, Distributed Systems

Front-End: React, HTML, CSS

Machine Learning: NLP (LSTMs, CNNs, Basic Transformers in PyTorch), Supervised Learning Models, Pre-Processing Pipelines

Data Analysis: R, Stata, SAS, Data Wrangling Pipelines, Linear Regression, Data Visualization, Excel

Project Management: AGILE, Git, Test-Driven Development, Application Risk Analysis

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## WORK EXPERIENCE

Cooper/Smith | Health Development | Remote  
*Software and Data Analysis Contractor*

Apr 2020 — Dec 2020

- Collaborated with an epidemiologist to implement an SEIR COVID predictive model in Malawi using R. Wrote clear, well-documented code and implemented a configuration file to allow non-technical users to test numerous parameters.
- Implemented a risk model that scored Malawi administrative districts' vulnerability to new COVID infections. The Python code used Google's API to incorporate real-time data from Malawi official government records.
- Planned and engineered a webapp that allowed Liberia's ministry of health to record and analyze donor resource contributions. Created a specification document, wire frame, and class/entity relationship diagrams to specify the underlying data structures.
- Communicated goals, progress, and obstacles to less technically trained team members and synthesized their qualitative expertise into the implementation of various projects.

Acacia Innovations | Biofuel Sales and Distribution | Nairobi, Kenya  
*Logistics and Management Fellow*

Mar 2019 — Jun 2019

- Designed and implemented methodology for sales team to access and record data from mobile devices while in the field. The new process reduced data loss, lowered error rates, and allowed management to monitor daily performance.
- Implemented a risk model that scored Malawi administrative districts' vulnerability to new COVID infections. The Python code used Google's API to incorporate real-time data from Malawi official government records.
- Restructured the storage and interface of customer sales and payment data, thereby facilitating searchability and data aggregation. This resolved data consistency issues and gave sales staff easy access to historical customer data.
- Organized and instructed knowledge-sharing sessions for use of built data interface, advanced Excel, and general computer literacy. These sessions helped ensure the new data tools could be maintained and updated as needed.

Cornerstone Research | Economic Consulting Firm | District of Columbia  
*Analyst*

Feb 2016 — Mar 2018

- Executed analyses evaluating whether data reflected client legal positions in market manipulation, trade dispute, and international tax law cases. Described findings in legal reports and prepared industry experts to testify on clients' behalf.
  - Authored reports that synthesized information from academic literature, legal documents, and analyst reports. Quickly obtained working-understandings of analytical methods and contexts surrounding data then communicated information to large teams.
  - Acquired, cleaned, and analyzed client and publicly available data using Stata, SAS, and Excel. Summarized results in client-ready deliverables in formats comprehensible to non-experts. Ensured all deliverables were correct and fastidiously formatted.
  - Reviewed reports and deliverables to verify all claims were sufficiently substantiated and error-free. Resolved errors and inconsistencies by replicating analyses and conducting additional research.
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