

JEFFREY CHASE II

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Education

American University, School of International Service
B.A. International Studies
Minors: Statistics, Arabic Language
GPA: 3.94/4.00

Washington, DC
Expected Graduation
May 2019

Computer Science & Data Analysis

Statistics & Machine Learning

- OLS, WLS, logistic regression models, KNN, bootstrap, support vector machines, LDA/QDA, Ridge, LASSO, regression and decision trees, random forests, bagging

Data Science

- Data Wrangling: manipulating and cleaning datasets to make them suitable for analysis
- Text Processing & Web Scraping: parsing semi-structured files and web sites to retrieve information
- Data Visualization: making static and interactive visualizations of tabular and spatial data

Other

- GIS (ArcGIS), web development, UI development

Languages (*Packages*)

Python (*pandas, numpy, Flask, BeautifulSoup*), JavaScript (*d3.js, leaflet.js, turf.js*), HTML5, CSS3, PHP, R (*tidyverse, ggplot2, plotly*), Java, \LaTeX

Experience

Applied Research Laboratory for Intelligence and Security

Data Science Intern, Integrated Discovery of Emerging and Novel Technologies

College Park, MD
Jan. 2019 – Present

- Developed a website (front- and back-end) for allowing chemical weapons experts to review articles, analyze document metadata, and train a topic modeling algorithm.
- Designed scalable tools to analyze data and present them in an intuitive interface

U.S. Department of Homeland Security

Intern, Office of Policy

Washington, DC
June – Aug. 2018

- Analyzed Department's budget and built a web interface to visualize results with over 80 visualizations and presented it to senior officials

American University, School of International Service

Research Assistant, Dr. Audrey Kurth Cronin

Washington, DC
Feb. – Aug. 2018

- Used internet research, webscraping, and data science skills in Python and R to create and validate an original dataset ($\approx 30,000$ entries) from 15 sources in various languages
- Led the data collection effort for my portion of the project

Research Assistant, Dr. Austin Hart

Jan. – May 2017

- Recruited as the only undergraduate on a large-scale book research project
- Coded a dataset from cross-national economic and survey data and data visualizations

Additional Skills

Language Modern Standard Arabic (*intermediate*), Spanish (*basic working knowledge*)

Software Git, Github, Microsoft Excel (*intermediate*), Word, PowerPoint, Outlook