JEFFREY CHASE II

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Education

American University, School of International Service   Washington, DC
B.A. International Studies   *Expected Graduation*
Minors: Statistics, Arabic Language   *May 2019*
GPA: 3.94/4.00

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

Experience

Applied Research Laboratory for Intelligence and Security   College Park, MD
Data Science Intern, Integrated Discovery of Emerging and Novel Technologies   *Jan. 2019 – Present*

- Developed a website (front- and back-end) for allowing chemical weapons experts to review and explore data and train a topic modeling algorithm.

U.S. Department of Homeland Security   Washington, DC
Intern, Office of Policy   *June – Aug. 2018*

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

American University, School of International Service   Washington, DC
Research Assistant, Dr. Audrey Kurth Cronin   *Feb.– Aug. 2018*

- Used internet research, webscraping, and data skills in Python and R to create and validate an original dataset from 15 sources in various languages

Research Assistant, Dr. Austin Hart   *Jan. – May 2017*

- Created a dataset from cross-national economic and survey data in R
- Assisted with data visualization and dataset coding

Additional Skills

Language	Modern Standard Arabic (*advanced*), Spanish (*basic working knowledge*)
Software	Microsoft Excel (*intermediate*), Word, PowerPoint, Outlook