Travis T. Byrum

833 New Hampshire Ave NW
Washington, DC 20009

(704) 930-8478
travis.tbyrum@gmail.com
github.com/travisbyrum

Education

Duke University Durham, NC

B.S. Statistics and B.A. Political Science *2013*

- Senior Thesis: *Wavelet-Based Functional Modeling of Accelerometer Data in Fitness Intervention Study*
- Dean's List Fall 2011, Fall 2012, and Fall 2013

Technical Skills

Languages: Python, JavaScript, TypeScript, Go, R, Java, LaTeX

Technologies: Flask, Django, React.js, Docker, MySQL, PostgreSQL, Elasticsearch, TensorFlow, MapReduce, Linux, aws, Nginx, git, Jira

Statistics and Machine Learning: Machine Learning, NLP, Clustering, Ensembles, Dimensionality Reduction, Mixed-Effects Models, Decision Analysis, Bayesian Statistics, Nonparametric Methods, Data Visualization

Experience

- *Booz Allen Hamilton Software Engineer* *September 2017 - Current*
  - Designed backend search service for Grants.gov using Flask and Elasticsearch
  - Constructed containerized data pipeline Grants.gov etl using Airflow
  - Created chatbot for award winning internal investment including both frontend design in React.js and backend architecture
- *Morning Consult Data Scientist* *October 2015 - September 2017*
  - Worked directly with company co-founders on all phases of polling projects including survey creation, monitoring, and data analysis (*Research has been cited by:* ***The Washington Post, New York Times, 538, Fortune Magazine, The Hill, ABC, Huffington Post, Vox, Bloomberg, among others***)
  - Wrote and maintained software packages for in-house modeling and data visualizations using Python and R
  - Developed data infrastructure and API integrations for automatic reporting using D3.js and Flask
  - Constructed and validated state and congressional-level election forecasts based on national surveys using multilevel regression and post-stratification (MRP)
- *Milwaukee Bucks Analytics Intern* *October 2014 - June 2015*
  - Used the web application framework Shiny in the R programming environment to create a portal for distributing strategic information to coaches and front office employees
  - Constructed statistical models for tasks such as forecasting career outcomes for drafted players and predicting the efficiency of lineup combinations
  - Designed a framework for performance metrics to aid in player evaluation using several statistical methods
  - Worked directly under the Bucks' Director of Analytics along with front office employees and coaches to assist in evaluating the team's on-court performance