

# Connor Sughrue

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## OBJECTIVE/PROFILE

William & Mary senior with strong project management skills, experience collaborating as part of a multi-disciplinary team, and proven technical skills. Looking for a technical position where I can continue to learn and make an impact.

## EDUCATION

College of William & Mary Williamsburg, VA  
B.S. in Data Science with concentration in Algorithms August 2018 – May 2022 (Expected)  
GPA: 3.37

Relevant Courses Spring 2020 – Fall 2020  
DATA 310: Applied Machine Learning  
CSCI 241: Data Structures  
MATH 351: Probability & Stats for Scientist  
MATH 352: Statistical Data Analysis

Relevant Courses Spring 2021  
DATA 442: Neural Nets & Deep Learning  
DATA 330: Applied Time Series Analysis  
DATA 311: Databases  
DATA 211: Data Visualization

## PROFESSIONAL EXPERIENCE

WMATA - PERF Washington, DC  
*Performance Analyst Intern (full-time)* June 2021 – August 2021

- Designed and implemented algorithm that transforms WMATA rail system into a directed graph using internal data as well as public GTFS data. Developed accompanying library that leverages graph algorithms to analyze the impact of service adjustments. Built Power BI dashboard with NTD data to help advance benchmarking efforts. Helped design data mart for GTFS-RT data. Analyzed and visualized GTFS and other transit data using R and SQL.

AidData - TDF (a research lab at William & Mary's Global Research Institute) Williamsburg, VA  
*Research Assistant Intern (part-time)* February 2020 – December 2020

- Worked on AidData's Tracking Underreported Financial Flows (TUFF) team. Used open-source data to collect and verify foreign financial flows from China to enhance AidData's Underreported Financial Flows data set. Performed quality assurance on other research assistant's data collection assignments.

Toffler Associates (Strategic Foresight Consulting) Arlington, VA  
*Research Associate Intern (full-time)* December 2019 – January 2020

- Conducted qualitative research and analysis. Supported study for Department of Homeland Security to develop a new private-public partnership model that protects critical infrastructure from systemic risk. Drafted conclusions based on the team's research and helped explain/defend our findings in a quality review with Toffler directors.

## PROJECTS (<https://github.com/cpsughrue>)

### Investment Portfolio Optimizer

- Object Oriented Python program that implements several portfolio optimization strategies.
- Uses Alpha Vantage API to download financial data and convex optimization library CVXPY to facilitate calculations.

### Zillow Kaggle Competition

- Used Pandas, NumPy, Matplotlib, and scikit-learn to analyze, visualize, and predict the sales price of homes.
- Placed 1<sup>st</sup> out of 66 participants in Kaggle competition.

### Washington Post Fatal Force

- Analyzed and visualized the Washington Post's Fatal Force database for research project on police shootings.

## LANGUAGES, LIBRARIES, AND FRAMEWORKS

Python, C++, SQL, R, TensorFlow, Keras, scikit-learn, Pandas, NumPy, Matplotlib

## LEADERSHIP EXPERIENCE

William and Mary IFC Executive Officer, *VP of Finance and Administration* December 2018 – December 2019  
Boy Scouts, *Eagle Scout* April 2016 – Present