

# Henry Randall

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## Professional Experience

### **Safegraph**

March 2021 - May 2023

Web Scraping Independent Contractor

Remote

- Constructed hundreds of workflows in Python to scrape, clean, and load data into a shared database
- Modified older, nonfunctional sections of the code base to regain functionality
- Managed 5-7 projects concurrently and prioritized their timely completion

### **Trilogy Education Data Analytics Boot Camp**

September 2020 - February 2022

Teaching Assistant

Remote

- Taught fundamental principles of data analytics and coding skills like Python and SQL to 100+ students
- Supervised and provided feedback to 6 teams of 4-6 students building ETL pipelines leading to SQL databases that feed data into dashboards

### **Bernie Sanders Presidential Primary Campaign**

November 2019 - April 2020

Victory Captain, Call Team Moderator, VANGUARD Member

Durham, North Carolina

- Organized and managed Mobilize events for 40 phone banks, canvasses, and peer-to-peer events
- Trained hundreds of volunteers to phone bank with LiveVox and VAN and troubleshooted technical issues
- Utilized NGP VAN to cut turf for canvasses and create call lists for specialized phone banks

### **Clemson University PEER/WISE**

August 2017 - May 2019

Head Physics Tutor

Clemson, South Carolina

- Tutored over 100 students in 10 different subjects and managed the physics tutoring division
- Planned and executed programs for first and second-year students to increase and retain diversity in STEM

## Projects

COVID-19 Data Tracker

[henrywrandall.pythonanywhere.com](https://henrywrandall.pythonanywhere.com)

- Designed a dashboard to monitor the COVID-19 pandemic in the U.S. in a Python Flask web app
- Assembled ETL pipeline to scrape, clean, and load data from Johns Hopkins into a hosted SQL database

## Education

### **Clemson University Calhoun Honors College**

May 2019

B.S. Biomedical Engineering and Biochemistry, *magna cum laude*

Minors in Biological Sciences and Chemistry

#### **Awards:**

- Clemson Bioengineering Senior Design Symposium, 2nd Place
- Residential Housing Association 2017 Governor of the Year

### **University of North Carolina Chapel Hill, Data Analytics Bootcamp**

August 2020

Learned and applied fundamental principles of data analytics and technical skills to:

- Collaborate on a team to analyze differential impacts of the U.S. COVID-19 pandemic by demographics
- Create a dashboard detailing the U.S. COVID-19 pandemic in real time

## Technical Skills

**Programming Languages:** Python, SQL, R, HTML, Javascript, Visual Basic

**Frameworks:** Pandas, Tensorflow, NumPy, Flask, Scikit-learn, Matplotlib, Beautiful Soup, Flask-Caching, SQLAlchemy, Leaflet, D3.js, Chart.js

**Tools:** NGP VAN, Tableau, Microsoft Office (advanced Excel), Mobilize, LiveVox Dialer