

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 in Jira 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

- 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, Jira, Microsoft Office (advanced Excel), Mobilize, LiveVox Dialer