

NICK SAWHNEY

nicksawhney@nyu.edu; 81 Orchard St, New York, NY 10002

PROFILE

I am a Software Engineer and Data Scientist with a passion for accessible data, visualization, and social impact. I have demonstrated engineering, research, and management experience, and I hope to find a challenging position where I can help solve hard problems. Learn more about my work at <https://nicksawhney.github.io/me/>

SKILLS

Python, Pandas, SQL, Go, C++, JavaScript, Java, Numpy, Sklearn, Tensorflow, Keras, Matplotlib, Plotly, AWS, Elasticsearch, Flask, Django, Google Cloud, Docker, MongoDB, Postgres, Pytest, Git, REST APIs, Data Analysis, Machine Learning, Neural Net Architecture, Natural Language Processing, Jupyter, Shell, and others.

EDUCATION

NYU Tandon School of Engineering: MS Candidate in Computer Science on the Artificial Intelligence Track, c.o. 2022

NYU College of Arts and Sciences: BA in International Relations with Honors, with minor in Computer Science, c.o. 2020

GPA: 3.87, Magna Cum Laude

EXPERIENCE

Developer - Bernie Sits App — January 2021

Built and scaled viral meme-creation application using Flask, CV2, Google Maps, and Heroku amidst press attention and API costs. Covered in BuzzFeed, Wired, NYTimes, Insider, and others. Managed crowdfunding to pay for the site, totaling at 9.8 million API requests over 4 days.

SWE and Data Science Intern - Skopos Labs — 2019-2020

Built and maintained financial simulation and schema enforcement library for machine learning engineers using Pandas, with pipelining using AWS EC2, SQL, and Boto. Managed interns working on data science projects and taught visualization tools, e.g. seaborn. Focused on developer-oriented and test-driven development using nose and pytest..

Thesis on Transportation Policing — 2020

Designed difference-in-differences model to predict the impact of fare-evasion arrest decriminalization on arrest patterns in the New York City subway system. Created datasets with NYC Open Data and pandas. Created interactive data exploration map with Folium in Python. https://nicksawhney.github.io/fare_evasion/

Software Engineer - NYU Social Media and Political Participation Lab - 2020

Designed and implemented data visualization dashboard showing historic and real-time twitter data in order to enable data accessibility and intuition for machine learning engineers. Tools used include Plotly, Flask, and MongoDB.

Paper on Deception Detection — 2019

Designed Convolutional Neural Network operating on Word2Vec Language Embeddings in tensorflow to model misinformation prevalence in articles based on language alone. Leveraged scikit-learn to perform dimensionality reduction and test classical architectures such as support vector machines and nearest neighbors and analyzed computational tradeoffs