

Sneha Patel

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EDUCATION

University of Pennsylvania, The Wharton School

Philadelphia, PA

Bachelor of Science in Economics

May 2023

Concentrations: Business Analytics, Finance | Minor: Computer Science

Cumulative GPA: 3.85/4.00

Courses: Data Structures & Algorithms; Scalable Networks & Cloud Computing; Data & Analysis for Marketing Decisions; Data Science for Finance; Introduction to Computer Systems; Big Data Analytics

Extracurriculars: WQHS Radio; Penn Band; Daily Pennsylvanian Data Stories Team; Penn Outdoors Club

WORK EXPERIENCE

Barclays Investment Bank

New York, NY

Sales & Trading Summer Analyst

June 2022 – August 2022

- Used Excel pivot tables to compile client data to understand prospects for newly launched pairs algorithm
- Analyzed trading algorithms' parameter frequency and SDP venue metrics to assess venue quality and client priorities

University of Pennsylvania

Philadelphia, PA

CIS 1600 (Discrete Mathematics) Teaching Assistant

January 2021 – May 2023

- Collaborated with faculty to deepen students' understanding of proof-based discrete mathematics through writing and grading homework assignments and exams
- Taught topics including: Combinatorics, Probability, Graph Theory, Proof Techniques and other mathematical foundations of computer science

U.S Securities and Exchange Commission

Philadelphia, PA

Quantitative Research Intern

May 2021 – July 2021

- Developed a program using Python and regular expressions to further automate Company S-3 filing review process on behalf of the Division of Corporation Finance

KEY PROJECTS

Food.com Data Project (CIS-5450: Big Data Analytics)

- Used Pandas to analyze Food.com recipe and review data
- Implemented machine learning techniques such as PCA, K-means clustering, Random Forest models, and Neural Networks to predict recipe cuisine or quality using PySpark and PyTorch

ScrapeGoat: An Automated Web Scraper (Personal Project)

- Used Selenium in Python to automate web scraping for individual project requested within 1 week
- Given list of company tickers, ScrapeGoat downloads articles relevant to user by parsing HTML

PennBook (NETS-212: Scalable Networks & Cloud Computing)

- Four-person group project to build a social platform hosted on AWS using Node.js
- Used Amazon's DynamoDB, socket.io, Twitter's Bootstrap collection for UI, and Apache Spark for data analysis
- Features included: news search, home feed, automatic profile posts, network visualizer, chat platform (individual focus)

WQHS Radio Website Redesign (as Website Manager for WQHS Radio)

- Implemented CSS to redesign radio station's website to better reflect the community's culture
- Regularly used HTML and WordPress to run and manage the WQHS radio station's website from January 2021 to January 2023

The Daily Pennsylvanian Data Stories (as member of the Daily Pennsylvanian Data Analytics Team)

- Wrote data stories for the University of Pennsylvania's school newspaper from August 2020 to May 2022
- Used R and Python to analyze and clean raw data and used Tableau for visualizations
- Topics included foreign donations to the university and crime around the university's campus

SKILLS & INTERESTS

Technical Skills: Python; Pandas; R; C; Java; Javascript; AWS; Tableau; SQL

Interests: Hiking, Jogging, Drawing with MS Paint