Sneha Patel

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EDUCATION

University of Pennsylvania, The Wharton School — Philadelphia, PA
Bachelor of Science in Economics — May 2023
Intended Concentrations: Business Analytics, Finance | *Minor*: Computer Science
Cumulative GPA: 3.89/4.00
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
- Prepared equity stock pitch in consumer retail sector for senior individuals on the Equities floor

University of Pennsylvania — Philadelphia, PA
CIS 1600 (Discrete Mathematics) Teaching Assistant — January 2021 – Present
- Collaborate with faculty to deepen students' understanding of proof-based discrete mathematics through writing and grading homework assignments and exams
- Teach 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

LEADERSHIP & ACTIVITIES

WQHS Radio — Philadelphia, PA
Website Manager — January 2021 – January 2023
- Used HTML and WordPress to run and manage the WQHS radio station's website
- Automated blog posts to update between social media platforms
- Attended weekly radio station board meetings for station maintenance and improvement

Daily Pennsylvanian Data Analytics — Philadelphia, PA
Staff Member/Writer — August 2020 – May 2022
- Wrote data stories for the University of Pennsylvania's school newspaper
- Used R and Python to analyze and clean raw data and used Tableau for visualizations

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)

SKILLS & INTERESTS

Technical Skills: Python; Pandas; R; C; Java; Javascript; AWS; Tableau; SQL
Interests: Hiking, Jogging, Drawing with MS Paint