Sheel Vakil

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Education

Rutgers University - New Brunswick   *GPA: 3.94/4.00*
B.S. Computer Science and Mathematics   *May 2023*
- **Relevant Coursework:** Data Structures and Algorithms, Multivariable Calculus, Introduction to Linear Algebra, Macroeconomics & Microeconomics (AP), Introduction to Computer Science, Introduction to Statistics, Management Skills
- **Organizations:** Undergraduate Student Alliance of Computer Science, Quantitative Finance, Delta Sigma Pi Fraternity
- **Dean's List:** Awarded all semesters

Skills

- **Languages:** Java, Python, HTML/CSS, JavaScript
- **Libraries/Frameworks:** Matplotlib, Pandas, Plotly, Tweepy, TextBlob, Flask, Bootstrap

Projects

AI ConnectFour
- Developed an interactive AI vs Player ConnectFour game using **Java** and implementing an object-oriented solution
- Implemented an AI using a modified minimax algorithm and increased its run-time efficiency with alpha-beta pruning

Tweet/Stock Sentiment
- Engineered an algorithm using **Python** to measure the volatility of a company's stock based on Twitter sentiment
- Utilized the **Twitter API** and **Yahoo Finance API** to collect data, alongside **Tweepy** and **TextBlob** libraries to analyze the data

COVID-19 Visualizer
- Designed a web application using **Python's Flask** framework to visualize and compare COVID-19 data between countries
- Converted real-time data retrieved from the **COVID19 API** into visual pie charts using **Matplotlib**

NetWorth Calculator
- Created a web page using **HTML** and **JavaScript** to calculate an individual's net worth based on a user's data input
- Adapted the Charles Schwab Co.'s net worth guide worksheet to provide error-free calculations and results

Experiences

Bluebonnet Data   *Cambridge, Massachusetts*
Data Fellow   *August 2020 – Present*
- Collect and organize census data to provide data analysis and visualizations using **Python**, **Pandas**, and **Plotly** for campaigns
- Currently apart of the data team for former Florida House District 26 Representative Patrick Henry's 2020 election campaign
- Analyze previous election and district demographic data to reveal trends and help the campaign develop strategies to win

Rutgers Student Business Activities Office   *New Brunswick, New Jersey*
Accounting Assistant   *September 2019 – Present*
- Ensure accounts and finances are kept in balance for over 1,000 student clubs by managing deposits, invoices, and checks
- Input financial records and statements into an online database to provide a seamless process to find and retrieve data
- Consult student clubs both over the phone and in-person about their accounts, resulting in improved efficiency and less error

Code Ninjas   *Piscataway, New Jersey*
Programming Tutor and Camp Coordinator   *May 2019 – August 2019*
- Coordinated summer camps to teach over 50 students **HTML/CSS** and **JavaScript** to create their first website using Brackets
- Enhanced students' logical intuition by teaching fundamental programming concepts: if-else statements, for/while-loops
- Increased tutoring enrollment by 10% by designing a flexible curriculum based on each student's demonstrated ability

Junior Achievement of New Jersey   *Edison, New Jersey*
Project Coordinator Intern   *October 2017 – May 2019*
- Launched HackJA in partnership with Major League Hacking for over 125 high school students in central New Jersey, awarded the New Jersey State Governor's Jefferson Award- Verizon Service Through STEM (2018)
- Organized the JA Titan Business Competition (a statewide computer business simulation) for over 500 high school students and hosted in-person rounds at multiple technological-driven corporations such as Samsung, J&J, and Ethicon
- Supervised a team of 40 high school students to educate over 500 elementary students on financial literacy and expanded the program to new school districts throughout the state by presenting the program at Student Leadership Conferences