

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

Skills

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

Experiences

Bluebonnet Data

Incoming Data Fellow

Cambridge, Massachusetts

August 2020 – December 2020

Rutgers Student Business Activities Office

Accounting Assistant

New Brunswick, New Jersey

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

Programming Tutor and Camp Coordinator

Piscataway, New Jersey

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

Project Coordinator Intern

Edison, New Jersey

October 2017 – May 2019

- Launched HackJA in partnership with Major League Hacking for over 125 high school students in central New Jersey
- 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 HS 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

Projects

AI ConnectFour • Personal project

- 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 • Personal project

- 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 • Personal project

- 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 • Personal project

- 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

Achievements

New Jersey State Governor's Jefferson Award | Verizon Service Through STEM (2018)

- Member of the leadership team to initiate high school hackathons to increase STEM career and studies awareness