Yash Shah

+1-732-353-9899 | shayash41@gmail.com | linkedin.com/in/yashshah41 | github.com/yashshah41 | yashshah41.github.io/

EDUCATION

Rutgers University   New Brunswick, NJ

Bachelor of Science in Computer Science and Economics with minor in Mathematics   *May 2026*

- **Activities:** Rutgers Competitive Programming, Quantitative Finance Club, Data Science Club, Cloud Computing Club, Chess Club, Omicron Delta Epsilon (Economics Honor Society), Association of Indians at Rutgers
- **Cumulative GPA:** 3.6/4.0
- **Major GPA:** 4.0/4.0
- **Relevant Coursework:** Data Structures, Computer Architecture, Intro to Discrete Structures 1, Multivariable Calculus, Data101, Intro to Linear Algebra, Intermediate Microeconomic Analysis, Intro to Statistics

EXPERIENCE

Lead Instructor   May 2022 – May 2023

Mathanasium   *Edison, NJ*

- Enhanced student engagement and learning outcomes by designing and implementing unique teaching methods, resulting in a 25% increase in retention of students year over year
- Utilized data-driven insights to develop a tailored curriculum for each student, fostering an average of 2 grade-level improvements in math proficiency over 6 month intervals
- Elevated team performance by conducting thorough skills assessments of instructors, strategically allocating tasks based on proficiency levels, resulting in heightened productivity and exceptionally low turnover

PROJECTS

Personal Portfolio Website | *Next.js, TypeScript, TailwindCSS, Github Pages*   August 2023

- Created a personalized front-end portfolio website using Next.js, TypeScript, and TailwindCSS, highlighting technical prowess utilizing different frameworks and design expertise.
- Successfully deployed the website on GitHub Pages, demonstrating expertise in deployment strategies and Git version control.
- Executed UX-centric design strategies, enhancing the website's usability and accessibility through meticulously implementing responsive layouts

RESTaurant Rater | *JavaScript, Node.js, Express.js, PostgreSQL*   July 2023

- Developed robust back-end REST-API to handle JSON data of a user's restaurant reviews
- Utilized Express.js with Node.js to handle HTTP requests and proficiently route JSON data to the PostgreSQL database
- Engineered CRUD requests, employing intricate queries to seamlessly effectuate database modifications using JSON data while also facilitating data retrieval operations

Pairs Trading Script | *Python, Pandas, NumPy, SciPy, Matplotlib*   June 2023

- Analyzed time-series data to form a cointegration model for two correlated stocks by creating a pandas data frame that held the returns of each stock relative to the previous day's closing price
- Examined the points where the two correlated stocks diverged from each other and created a unit root function that performed a T-test to test for its' significance
- Drew signals on whether or not to trade and creating a NumPy array that held gross and net returns which compared against the market benchmark returned an alpha value and plotted using Matplotlib

TECHNICAL SKILLS / OTHER

Programming Languages:: Java, Python, JavaScript, TypeScript, R
Web Technologies: : PostgreSQL, React, Node.js, Express.js, HTML/CSS, TailwindCSS, REST API, FastAPI
Data Analysis & Other Tools: : pandas, NumPy, Matplotlib, Plotly, SciPy, BeautifulSoup, Selenium, Git, LaTeX
Interests: : Chess, Cars, Basketball, Reading, Coffee, Piano, Bagels, Photography