SULABH KATILA

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New York, New York

EDUCATION

St. Joseph's University   Expected Graduation: May 2026
BS (Honors) in Mathematics & Computer Science   GPA: 3.96
- Honors and Awards: Honor's Program, Esse-Non Videri Excellence Scholarship, Dean's List
- Relevant Coursework: Data Structures and Algorithms, Probability and Statistics, Calculus, Differential Equations, Linear Algebra, Discrete Mathematics

EXPERIENCE

St. Joseph's University   September 2023 – Present
Computer Science and Mathematics Peer Tutor
- Provide individualized tutoring in Calculus, Discrete Mathematics, Java Programming, and more, improving students' comprehension of challenging topics and facilitating their academic success.
- Customized study plans, teaching strategies, and fostering collaboration with strong communication and leadership skills.
- Volunteered as a peer tutor (February - May 2023), achieving excellent results, leading to the commencement as an official employee in September 2023.

CS50, Harvard University (Online, Course Participant)   October 2022 – July 2023
CS50x || **CS50P** || **CS50AI** || **CS50W**
- Gained hands-on experience in problem-solving, algorithmic thinking, and programming with C, Python, JavaScript, and SQL.
- Applied AI/ML solutions for real-world applications including developing a Question Answering system, Minesweeper solver AI, traffic sign identification CNN, and predictive model for online shopping behavior.
- Expanded proficiency in designing and deploying web applications using Python and JavaScript with frameworks such as Django and React, by completing projects including an email platform, social media web app, and e-commerce website.

Open Source (Django || Activist)   August 2023 - Present
- Optimized session data storage for the cached_db backend in Django to prevent request crashes in case of cache failures.
- Enhanced Django's cross-platform compatibility, preserving colorized output in non-Windows environments.
- Spearheading the implementation of a rate-limiting feature in Activist to fortify system security and ensure fair usage.

Computer Club, Vice President (St. Joseph's University)   September 2023 - Present
- Co-lead a team of over 70 members in organizing and managing activities for the club, building a vibrant tech community.

PROJECTS

Job-App Bot:
- Engineered a Python program to automate job application tracking, significantly streamlining the process and saving up to 1 hour per week during peak application seasons.
- Implemented OAuth for secure authentication and integrated natural language processing, PaLM, and Google Cloud API automating job application details and status updates in Google Sheets.

Full-Stack Fitness Tracker:
- Developed a responsive and interactive front end using HTML, CSS, and JavaScript, enabling users to track caloric intake, monitor workouts, and achieve fitness goals with detailed nutrition tracking.
- Implemented a robust and efficient backend using Django and Python, ensuring seamless functionality and data management, and deployed the application using Vercel.

Fake-News Classification:
- Analyzed a dataset using Pandas, NumPy, NLTK, and Matplotlib for insights into true and fake news articles.
- Classified fake news by training neural networks, and performed error analysis uncovering model limitations and biases.

Personal Portfolio:
- Created a portfolio website using React, TypeScript, and CSS featuring my skills and projects and deployed on GitHub pages.

TECHNICAL SKILLS

Languages: Python, C, Java, JavaScript/TypeScript, Swift, HTML/CSS, SQL
Tools & Technologies: Git, GitHub, VS Code, Google Colaboratory, Pandas, NumPy, TensorFlow, Flask, Django, React