SULABH KATILA

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EDUCATION

St. Joseph's University Expected Graduation: May 2026
BS (Honors) in Mathematics & Computer Science GPA: 3.96

- Relevant Coursework: Data Structures and Algorithms, Probability and Statistics, Linear Algebra, Calculus, Differential Equations, Discrete Mathematics

TECHNICAL SKILLS

Languages: Python, Java, JavaScript/TypeScript, Swift, HTML/CSS, SQLs
Tools & Technologies: Git, Docker, Pandas, NumPy, TensorFlow, Flask, Django, React, UIKit

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 teaching strategies and fostered collaboration with strong communication and leadership skills.
- Volunteered as a peer tutor (February 2023 - May 2023), achieving excellent results, leading to the commencement as an official employee in September 2023.

CS50 and Codepath (Online, Course Participant)
CS50, Harvard University (**CS50x** || **CS50P** || **CS50AI** || **CS50W**) October 2022 – July 2023

- Gained 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.

Codepath (iOS-101) September 2023 - Present

- Gained proficiency in Xcode, working collaboratively in small teams to tackle iOS app challenges with labs and projects.

Open Source (Django || Activist**)** August 2023 - Present

- Optimized cached_db session data storage, and improved cross-platform compatibility for colorized output in Django.
- Spearheaded the implementation of a rate-limiting feature and tests in Activist Open-source project.

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 community.

PROJECTS

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 Django backend, ensuring seamless functionality, and deployed 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.

Job-App Bot:

- Engineered a Python program to automate job application tracking, aimed at preventing email oversights.
- 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.

Personal Portfolio:

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

Honors & Awards

Honor's Program, Esse-Non Videri Excellence Scholarship, Dean's List (x2) Saint Joseph's University
PyData NYC - Diversity Scholarship 2023 NumFOCUS