SULABH KATILA

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EDUCATION

St. Joseph's University   Expected Graduation: May 2026
BS (Honors) in Mathematics & Computer Science   GPA: 3.96
- Coursework: Data Structures & Algorithms, Probability & Statistics, Linear Algebra, Calculus, Differential Equations

TECHNICAL SKILLS

Languages: Python, Java, JavaScript/TypeScript, Swift, HTML/CSS, SQL
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
- Successfully conducted over 50 personalized monthly tutoring sessions, resulting in a 75% improvement in test scores for students enrolled in Programming with Java, Pre-Calculus, Calculus, Probability, and Statistics
- Tailored teaching strategies to individual student needs, employing a diverse range of instructional methods such as hands-on coding exercises, interactive problem-solving sessions, and real-world applications of the concepts
- Received recognition for exceptional coaching, consistently delivering outstanding results and high levels of client satisfaction

CS50 and Codepath (Online, Course Participant)
CS50, Harvard University (**CS50x** || **CS50P** || **CS50AI** || **CS50W**)   October 2022 – July 2023
- 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 – November 2023
- Gained proficiency in XCode, working collaboratively in small teams to tackle iOS challenges and build projects including a Wordle clone, a Blogging app, a Weather-forecasting app, and a Task-management app

Computer Club, Co-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
- Collaborate with professors and other club officers to plan and execute workshops, seminars, and coding competitions

PROJECTS

Open Source (Django || Activist**)**
- Optimized cached_db session data storage, and improved cross-platform compatibility for colorized output in Django
- Implemented and tested a rate-limiting feature in Activist Open-source project, enhancing performance and security
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