SARTHAK NEGI

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EDUCATION

The University of Texas at San Antonio — Aug. 2021 – December 2024
Bachelor of Science in Computer Science (conc. in Software Engineering and Data Science) — *GPA: 3.83 (Major: 3.95)*

- Awards - Distinguished Presidential Scholarship, President's List, Honor Roll
- Relevant coursework - Data Structures, Systems Programming, Analysis of Algorithms, Application Programming, Data Science, AI, Computer Organization, Database Systems, Software Engineering, Secure Software Dev

TECHNICAL SKILLS

Languages: Python, Java, C, SQL (Postgres, MySQL, Microsoft SQL, MongoDB), JavaScript, HTML/CSS
Frameworks: React, Node.js, Flask, FastAPI, Express.js
Developer Tools: AWS, Azure, Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
Libraries: Pandas, NumPy, Matplotlib, PyTorch, TensorFlow, BeautifulSoup, Pytest, Selenium

EXPERIENCE

Undergraduate Research Assistant — March 2023 – Present
The Data Analytics Center, UTSA — *San Antonio, TX*

- Created a Python-based database package for abstracting database operations
- Achieved 100 percent code coverage by writing 50 plus successful unit tests using pytest
- Developed 12 plus efficient data parsing and web-scraping scripts for multiple endpoints, storing data in an SQL database using Requests, Beautiful Soup and Selenium
- Created a tickiting system for the organization using the Trello API

Computer Science Tutor — Jan. 2023 – May 2023
The University of Texas at San Antonio — *San Antonio, TX*

- Conducted personalized CS tutoring for Data Structures, algorithms, and software development using in Python, Java and C
- Mentored students in programming assignments, offering guidance on best practices and debugging techniques
- Provided problem-solving strategies and support to computer science students

Database Developer — Summer 2020
Assav Organics — *Dehradun, India*

- Skillfully crafted SQL queries for smooth migration of product and user data to an SQL database
- Assisted finance department in maintaining accurate revenue and tax records
- Utilized SQL expertise to optimize data management, enhancing efficiency

PROJECTS

Guardian Wheels | *Python, Javascript, AWS, FastAPI, Arduino, MySQL, Twilio* — November 2023

- Project was declared the winner of the Toyota Sponsor Challenge and also secured the first place overall at HackUTD 10
- Developed Guardian Wheels car-burglar alarm system using Python, Twilio, and Arduino for motion and sound detection
- Created a comprehensive notification system to alert owners, share data with law enforcement, and improve response times
- Utilized mySQL, Bootstrap, FastAPI, AWS, and web technologies for user-friendly interface
- Enabled communication with drones for aerial surveillance and motion tracking
- Contributed to an advanced car security solution with real-time monitoring and law enforcement collaboration

Commentalyzer | *Python, Youtube API, OpenAI API, JavaScript, HTML/CSS* April 2023 - Present

- Developed a Python script using YouTube API to fetch comments and perform sentiment analysis with OpenAI API on provided video links
- Aids content creators with data-driven insights to optimize content strategy and boost monetization
- Streamlined sentiment analysis on YouTube video comments for informed content creation
- Enhances audience engagement through data-backed decision making

BeRowdy | *Java, Android Studio, Google Firebase* — May 2023

- Developed "BeRowdy" app for UTSA students, enabling account creation, campus connections, and photo sharing
- Utilized Object-Oriented Programming principles and meticulously followed the MVC architecture
- Integrated Firebase for backend and user authentication, ensuring seamless functionality

EXTRACURRICULARS

Organizer — 2024
RowdyHacks — *San Antonio, TX*

- Part of the organizing team of RowdyHacks 9, hosted by ACM UTSA
- Working with the Tech Team to develop the Hacker Portal, ensuring a seamless and engaging user experience