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: 3.86 (Major: 3.97)*

- 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, TypeScript, HTML/CSS, GraphQL
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*

- Developed a Python-based package to streamline database operations, boosting team efficiency by 50%.
- Achieved 100% code coverage with 50+ successful unit tests using pytest for a robust testing framework
- Created 12+ data parsing and web-scraping scripts using Requests, Beautiful Soup, and Selenium, storing data in an SQL database.
- Implemented an organizational ticketing system utilizing the Trello API
- Engaged in the development of a full-stack research and grant matching application, leveraging React + TypeScript for the frontend and FastAPI for the backend

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 Python, Java and C
- Mentored students in programming assignments, offering guidance on best practices, problem-solving and debugging techniques

PROJECTS

PixelPulse | *Python, React, AWS, FastAPI, PostgresQL*	May 2024

- Created PixelPulse, an online shopping site for PCs and accessories with intuitive user and admin interfaces
- Implemented features for users to purchase individual PC parts, use advanced filters, and track detailed order information
- Enabled admins to manage user information, create/edit products, and review detailed order data
- Built the frontend using React/JavaScript, enabling reusable components to avoid redundancy
- Utilized FastAPI/Python for the backend, providing a familiar and easy-to-integrate framework

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

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
- 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