SARTHAK NEGI

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EDUCATION

The University of Texas at San Antonio   Aug. 2021 – May 2025
Bachelor of Science in Computer Science (conc. in Data Science)   *GPA: 3.80 (Major: 3.91)*
- 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

TECHNICAL SKILLS

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

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 41 successful unit tests using pytest
- Engineering PyTorch ML models for unsupervised and supervised tasks
- Developed 8 efficient data parsing and tokenization scripts for 10 endpoints, storing data in an SQL database
- Utilized the Requests and Beautiful Soup libraries to craft streamlined web-scraping programs for gathering SEC, movie, music, and game data efficiently
- Collaborating on a scalable web app project with a 6-member team on Github

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
- Enabled reliable financial tracking and reporting with improved processes

PROJECTS

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

File I/O System | *C, Linux, Bash Scripting*   April 2023
- Created a bash and C-based file I/O system for efficient CRUD operations
- Implemented data conversion for seamless transition between text and binary formats
- Enables efficient file handling and versatile data storage and presentation

BeRowdy | *Java, Android Studio, Google Firebase*   May 2023
- Developed "BeRowdy" app for UTSA students, enabling account creation, campus connections, and photo sharing
- 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 Teach Team to develop the Hacker Portal, ensuring a seamless and engaging user experience