HAFIZ ASHAN BAIG

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EDUCATION

NED University of Engineering & Technology - Karachi, PK   Oct 2023 – 2027

BE in Computer & Information Systems Engineering — CGPA: 3.8+

PROJECTS

LeetCode Leaderboard API / *Python, Flask, Web Scraping, REST API*

- Built a REST API to track user coding stats from LeetCode
- Implemented data scraping and JSON-based API endpoints for real-time user leaderboard updates
- Designed with modular code to allow integration into coding communities and dashboards

NASA Hackathon API Project / *Python, Flask, Data Visualizatio*n

- Participated in NASA Space Apps Challenge (2025).
- Developed an API for space data visualization and user interaction
- Visualized satellite data using charts and graphs for educational engagement

Flask E-Commerce Website / *Python, Flask, HTML/CSS, Jinja Templating, JS*

- Designed a basic online store with product catalog, user authentication, and shopping cart functionality
- Used HTML templates and SQLite for backend storage

Movie Recommendation System / *Python, Pandas, NumPy, Content-Based Filtering, Sci-kit, NLTK, Streamlit*

- Built a content-based movie recommender system
- Performed data cleaning and cosine similarity matching for personalized suggestions
- Deployed with Streamlit for a clean and interactive UI

WhatsApp Auto Messenger / *Python, MySQL, Automation, Pywhatkit, PyautoGUI*

- Automated bulk WhatsApp messages with scheduling and contact management
- Stored recipient data in a SQLite database

Carpool System with MySQL / Python, MySQL, Streamlit

- Developed a ride-sharing system with user registration, ride requests, and trip management features
- Integrated full MySQL database backend
- UI built in Streamlit for quick deployment and real-time updates

Snake Game / *Python, Tkinter*

- Created a classic Snake game with GUI using Tkinter.
- Added scoring system and speed control

SKILLS AND ADDITIONAL INFORMATION

Programming Languages: Python, SQL, HTML/CSS
Frameworks/Tools: Flask, Langchain, Firebase
Developer Tools: Git, GitHub, VS Code
Libraries: Pandas, NumPy, Matplotlib, PyAutoGUI, PyWhatkit, SQLite, Streamlit, Sci-kit learn, Seaborn
Concepts: Backend Development, API Development, Automation Scripts, Data Analysis, Logic Design
Problem Solving: LeetCode (250+ DSA Problems Solved)
Soft Skills: Problem Solving, Teamwork, Leadership, Fast Learner, Solution-oriented, Communicative

ACHIEVEMENTS

- Participated in **10+ Coding competitions** across Karachi
- Completed **Harvard University CS50x Puzzle** 2025
- **Section Leader** for **Stanford University** CODE IN PLACE (2025)
- Solved **250+ LeetCode Problems** (Data Structures & Algorithms)