Rayyan Amir

Karachi, Pakistan

 github | linkedin | rayyanamir228@gmail.com | +92 3160297794 | Portfolio

EDUCATION

PAF KIET University ,Karachi   Feb 2022 - Present
Bachelors of Science in Computer Sciences

Private   Oct 2020 - Oct 2021
A levels in Pre-Engineering

New Middle East International School ,Riyadh   June 2018 - June 2019
O levels in Pre-Engineering

EXPERIENCE

Insider (SMC-Pvt) Ltd || C++ Developer Intern   July 2024 - September 2024

- Optimized memory usage and enhanced performance of C/C++ programs by analyzing dynamic allocations and eliminating memory leaks.
- Developed and implemented multithreading features using **mutexes** and **locks** to ensure safe concurrent execution.
- Resolved critical integration issues with third-party APIs, ensuring compatibility and system stability. contributing to a dynamic team where I can enhance and expand my expertise in the field.

PROJECTS

Zaibten – Customer Review Analysis

- Developed a web-based system using **Flask** and **MongoDB** to analyze **10,000+ customer reviews** from platforms like Amazon ,Yelp & Ebay.
- Implemented **Selenium** and **BeautifulSoup** for real-time web scraping with **95% accuracy**.
- Designed and optimized sentiment analysis pipelines using **NLTK's VADER** and **TextBlob**, achieving **85%+ sentiment classification accuracy** for positive, negative, and neutral reviews
- **Visualized** insights through dynamic dashboards with **Matplotlib** and **Seaborn**, including sentiment distribution, review trends, and word clouds, enhancing data interpretability for end-users.
- **Automated** PDF report generation through **SMTP** for comprehensive analytics summaries, reducing manual reporting time by **70%.**

Smart City Management System

- Developed a **Java-based application** to streamline city services, enhancing the efficiency of city administration
- **Implemented** modules for **citizen management,** handling records, communication and improving citizen-administration interaction..
- **Designed** a hospital management module to track patient records, coordinate emergency responses, and manage hospital information effectively.
- Created an **education management modul**e to oversee school administration, manage student records, and facilitate communication with city authorities.
- Developed a **tourism management module** to promote city attractions, manage tourist facilities, and provide information support to visitors.

Multi-User Client-Server Chat Application

- Developed a **Python-based** real-time chat application enabling **multiple users** to connect to a central server, enhancing group communication and user management capabilities.
- **Designed** the server to handle multiple client connections, with users joining by inputting the server's IP address.
- **Implemented** features allowing users to send and receive messages instantly, facilitating seamless communication.
- **Enabled** users to create and join groups for collective discussions, promoting interactive and collaborative chat sessions.

SKILLS AND INTERESTS

Skills : Python, C/C++, C-Sharp, Java, HTML, CSS , SQL, Analytical Thinking, Statistical Analysis, Teamwork, Leadership, Public Speaking
Interests : Data Science, Blockchain Technology

RELEVANT COURSEWORK

Core CS Courses : Data Structures, Algorithm, Database Management System, Object Oriented Programming, MySQL, Data Manipulation, Data Visualization
Learning: Blockchain Basics, Web3 Concepts

POSITIONS OF RESPONSIBILITY

Google Developers Society, Kiet University
Organized events to promote scholarships, facilitated patenting of student ideas.