MS Muhammad Sohaib

Student

- **Contact**

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- **Websites, Portfolios, Profiles**

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- https://github.com/Sohaib0123

- **Skills**

Programming Languages: C++, C, Python, C#, SQL, Kotlin, Java, Assembly Language

Frameworks and Libraries: .NET Framework, JavaFX, OpenCV, Pandas, NumPy, Prolog

Mobile Development: Android app development using Kotlin

Web Development: .NET Framework, C#, SQL

Database Management: SQL, Firebase

Data Structures and Algorithms: B-tree, AVL tree, Red-Black tree, Genetic Algorithms

Machine Learning and AI: Genetic Algorithms, AI-based scheduling

Tools and Platforms: Jupyter Notebook, Firebase, Linux (Ubuntu)

Passionate and enthusiastic Computer Science student at FAST NUCES Islamabad, with a strong interest in Artificial Intelligence and Machine Learning. Proficient in programming languages including C++, C, Python, C#, SQL, Kotlin, and Java, with hands-on experience in JavaFX, OpenCV, Pandas, NumPy, and Prolog. Experienced in working with operating systems and Linux (Ubuntu). Seeking opportunities to leverage my skills and passion for AI and ML in a dynamic and innovative environment to contribute to cutting-edge projects and further enhance my knowledge and expertise in the field.

- **Education**

Expected in 2025-06

Bachelor of Science: **Computer Science**

National University of Computer And Emerging Scien - Islamabad

- **Accomplishments**

AI Timetable Scheduling Using Genetic Algorithm
- Developed an AI-based timetable scheduling system using a genetic algorithm.
- Implemented two-point crossover and tournament selection for optimizing time slot allocation.
- Utilized Python as the programming language.
- Executed the project on Jupyter Notebook.
- Demonstrated practical application of AI techniques in solving complex scheduling problems.
- Showcased proficiency in advanced AI concepts and programming skills.

MentorMe App
- Developed the MentorMe app for Android using Kotlin.

Project Management: Team collaboration, project planning, and execution

Operating Systems: Experience with various OS, particularly Linux (Ubuntu)

- Utilized Firebase as the backend for real-time database and authentication.
- Implemented features to connect mentors and mentees, facilitating communication and mentorship.
- Ensured a user-friendly interface and seamless user experience.
- Showcased expertise in mobile app development and backend integration.

One-Stop Website
- Developed the One-Stop website for university use, leveraging the .NET framework and C#.
- Designed and implemented the backend using SQL for efficient data management.
- Created a robust and scalable web application tailored to university needs.
- Ensured seamless integration of front-end and back-end components.
- Demonstrated proficiency in web development and database management.

Database System Using Tree Structures
- Developed a database system in C++ utilizing B-tree, AVL tree, and Red-Black tree data structures.
- Implemented efficient data storage, retrieval, and management using these advanced tree algorithms.
- Enhanced database performance and reliability through balanced tree structures.
- Demonstrated expertise in C++ programming and data structure implementation.
- Showcased ability to design and optimize complex database systems.

- ## Softwares/Platforms

  - Visual Studio
  - Microsoft SQL Server
  - Jupyter Notebook
  - Ubuntu
  - Prolog
  - DOSBox
  - Android Studio
  - Eclipse
  - Cisco