

Asad ur Rehman

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Experience

Web Development and Designing Intern

Oasis Infobyte | Remote

July 2023 - Ongoing

- ✧ Assisting in designing and creating responsive websites.
- ✧ Learning HTML, CSS, JavaScript, and graphic design tools.
- ✧ Exploring frontend frameworks like React.

Software Development Projects

School of Electrical Engineering and Computer Sciences (SEECS), NUST | Fall 2021 - Present

- ✧ Collaborated with a team of three to create a user-friendly, GUI-driven train reservation system using Python. Spearheaded the implementation of robust back-end functionalities, seamlessly integrating Python code with an SQLite database to ensure streamlined data management and retrieval.
- ✧ Contributed to a dynamic team of three in designing and developing a Java-based grocery management system with an intuitive GUI. Successfully implemented critical functionalities, including inventory management, transaction recording, and secure user authentication. Leveraged Java's robust file management capabilities to enable efficient data storage and retrieval, ensuring seamless integration between the frontend and backend components.
- ✧ Contributed to the development of a GUI-based packet sniffer tool in a team of four. Leveraged network programming concepts to analyze network traffic and capture packets for analysis. Utilized MySQL database to store captured packets and performed data analysis to enhance the tool's performance and functionality.
- ✧ Collaborated with a team member to develop a multi-threaded file and directory management system in Python. Employed file, directory, and fileSystem classes to facilitate efficient file and directory operations. Ensured smooth integration of backend functionalities with the frontend for a seamless user experience.

Skills

- ✧ Proficient in Python, C/C++, Java, Javascript and Solidity
- ✧ Pytest for API testing and Python Unit testing to ensure robust and error-free code
- ✧ Proficient in Git and Github, enabling seamless collaboration and version management in team projects
- ✧ Familiar with the fundamentals of web development and adept at using Flask, a micro web framework for Python
- ✧ Knowledgeable in blockchain technology, demonstrated through the implementation of blockchain solutions using Python
- ✧ Well-versed in SQL (MySQL, PostgreSQL, Sqlite) and skilled in designing efficient database systems for data storage and retrieval
- ✧ Acquired through certificates in "Machine Learning Specialization," possessing knowledge of various machine learning algorithms and techniques.
- ✧ Familiarity with neural network architectures and their applications in deep learning, as indicated by the certificate in "Neural Networks and Deep Learning."
- ✧ Possess exceptional problem-solving skills honed through various hands-on projects.
- ✧ Excellent communication skills, enabling clear articulation of ideas and successful collaboration with cross-functional teams
- ✧ Thrive in team environments, contributing actively to collective success through strong teamwork and a collaborative approach
- ✧ Demonstrate the ability to quickly grasp new concepts and technologies, thriving in fast-paced and dynamic work environments

Education

Bachelor of Engineering in Software Engineering

National University of Sciences and Technology, Expected Graduation: November 2025

Relevant coursework:

- ✧ Fundamentals of Programming
- ✧ Object-Oriented Programming
- ✧ Computer Architecture and Logic Design
- ✧ Software engineering
- ✧ Data Structures and Algorithms
- ✧ Design and Analysis of Algorithms
- ✧ Software Design and Architecture
- ✧ Operating Systems

Certificates

- ✧ [Software Design Principles](#) - Codecademy - May 2023
- ✧ [Learn the Basics of Blockchain with Python](#) - Codecademy - July 2023
- ✧ [Git and Github Certificate](#) - Codecademy - July 2023
- ✧ [Python exceptions and Unit Testing](#) - Codecademy - July 2023
- ✧ [Recursion in Python](#) - Codecademy - April 2023
- ✧ [Blockchain Basics](#) - Coursera - June 2022
- ✧ [Smart Contracts](#) - Coursera - July 2022
- ✧ [Mathematics for Machine Learning: Linea Algebra](#) - Coursera - August 2022
- ✧ [Mathematics for Machine Learning: Multivariate Calculus](#) - Coursera - August 2022
- ✧ [Machine Learning Specialization](#) - Coursera - September 2022
- ✧ [Neural Networks and Deep Learning](#) - Coursera - October 2022