

Faiza Rafique

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Professional Summary

As a diligent computer engineering graduate, I bring a year of practical experience and a solid academic foundation. With my strong problem-solving skills, attention to detail, and ability to work collaboratively, I am eager to explore emerging technologies and continuously learn, I'm enthusiastic about contributing to innovative projects.

Education

FAST - National University of Computer and Emerging Sciences, BS Computer Engineering 2020 - 2024

Relevant Coursework: Object-Oriented Programming, Data Structures & Algorithm, Operating System, Internet of Things, Database, Computer Vision, Machine Learning, Artificial Intelligence, Parallel & Distributed Computing.

Professional Experience

Front End Developer June 2024 **Acemware.net - Remote**

- Learned to design efficient website using HTML, CSS, JavaScript and NodeJs.

Database Software Engineer June 2023 - July 2023 **Masood Textile Mills - Internship**

- Learned to design efficient database structures for optimal querying using SQL/MySQL.

Teaching Assistant-OOP Feb 2023 **FAST-NUCES**

- I improved my programming and communication skills by assisting students with complex concepts and problem-solving.

Technical Skills

- C++, Python
- HTML, CSS, JavaScript, MySQL, NodeJs, Mangodb
- Matplotlib, Scikit-Learn, NumPy, TensorFlow, Git

Educational Projects

1) IoT-Based Weather Station

(Final Year Project)

As the lead developer for this project, I designed and implemented an IoT-based weather station that provides real-time weather data on a cloud platform. I developed a responsive website using HTML, CSS, and JavaScript, integrating the OpenWeatherMap API to ensure continuous and accurate weather updates. This project honed my skills in web development, data integration, and teamwork.

2) Hostel Management system

Designed and implemented a comprehensive Hostel Management System, utilizing HTML, CSS, and JavaScript for the front-end interface and SQL for the back-end database management. My role encompassed developing a user-friendly interface that allowed for seamless navigation and interaction. This project enhanced my full-stack development skills to create robust web applications.

3) Restaurant Simulation

Utilized multi-threading with mutexes to manage simultaneous access as guests interact with shared resources, implementing semaphores to control occupancy and ensure orderly use of facilities like bathrooms and dining areas.

Leadership and Extra Curricular Activities

FAST IEEEWIE Society | FAST - NUCES | President

Sep 2023 – May 2024

- I led the society in arranging various events like project exhibitions, programming and quiz competitions, DLD contests and seminars. My role involved overseeing event planning, coordination, team management and execution.

FAST Literary Society | FAST - NUCES | Social Media Head

Sep 2023 – Jan 2024

- I managed and created content for society's social media platform in order to increase society's online presence

Achievements

- Member of Dean's List in **2021 & 2024**, participated in C++ programming competition PSYWSC conference PIEAS in **2022**.