

Muhammad Wajhi Uddin

Lecturer

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I hold a Master's degree in Computer Science and bring a dynamic and enthusiastic approach to my role as a computer science expert. My skill set spans across mobile, web, and desktop application development, backed by a solid foundation in theory. My passion for technology fuels my dedication to continuously improving my skills, emphasizing excellence, creative problem-solving, and effective collaboration for successful project outcomes. I am currently making a shift from a career in academia to the technology industry, with the aim of further honing my expertise in the field

Experience

● Lecturer in NED University

Teaching following Course to Graduate Computer Science Students

- 1) Advance Analysis of Algorithms
- 2) Programming Languages.
- 3) Fundamental Of Information Technology
- 4) Data Structure and Algorithm Lab
- 5) Programming Fundamental
- 6) Object Oriented Programming

Teaching following Course to Graduate Computer Science Students

1. Advance Analysis of an Algorithm (Weekend, Evening)

● Lecturer and Final Year Project Co-ordination at Iqra University Feb 2022 - October 2023

Taught the following courses to Undergraduate Computer Science Students

- Object Oriented Programming in Java
- Design and Analysis of Algorithms
- Visual Programming Languages (.NET)
- Computer Graphics and Animation (Java)
- Web Engineering
- Data Science
- System Analysis and Design (Masters Students)

As a Fyp Coordinator supervised and develop the following projects

- **Augmented Reality Furniture Mart:** I guided students in developing an augmented reality furniture mart mobile app. It enables customers to visualize 3D models of furniture products in their actual surroundings, enhancing the shopping experience.
- **Dealsup:** oversaw the designing and development of "DealsUp," an application dedicated to property listings, aimed at simplifying real estate concerns with key features of Tokenization , Agents Verification , Easy Listing , Direct Communication , Cryptocurrency , 360 Virtual View , User Authentication , Advance Search , Secure Transaction , Real Time Updates and Friendly UI
- **Pet Application:** I supervised students in creating a pet application that integrates machine learning for breed identification. The app offers a comprehensive suite of features, including pet grooming services, vet consultations, and online pet food shopping, enhancing the overall experience for pet owners and enthusiasts.
- **Heart Care:** I provided supervision for students working on a Heart Care project, involving the creation of a mobile application using React Native. This app utilizes various machine learning and deep learning algorithms to predict heart attacks and detect heart diseases based on user-inputted data.
- **Smart Restaurant:** I instructed students in the development of a mobile app known as "Smart Restaurant." This app streamlines business-to-customer services by incorporating features such as QR code-based ordering and pre-reservation systems. It effectively reduces table turnover time and minimizes the need for traditional waiter interactions, enhancing the dining experience.

● Research Assistant at SZABIST (National Center in Big Data and Cloud Computing)

Jul 2020 - May 2022

- **Research Contribution:** Design and develop novel genetic algorithm for flow shop scheduling problem. Furthermore, apply multiple nature inspired algorithms for comparing result for Flowshop scheduling. Also, deploy these algorithms in industries for improving efficiency.
- **NCBC INDUSTRIES DASHBOARD:** Design and develop a full stack website for industries, where industrial representatives can look at the progress of production on their different machines.
- **IOT FISH FARMING:** Design and develop a full stack mobile application for funded grant under NCBC, where all the data of sensors parameters are displayed in graphical representation. Also, feed and water levels are set by users via mobile application. This project will help fish farming industries in Pakistan.
- **IOT POULTRY FARMING:** Design and develop a full stack web application for funded grant under NCBC, where all the data of parameters are displayed in graphical representation. Also, curtains status, feed and water levels are set by users via website. This project will help poultry industries in Pakistan.
- **SZABIST NCBC WEBSITE:** Develop website for NCBC SZABIST, where aim and objects, projects, industries served is represented. Furthermore, also developed NCBC SZABIST PRODUCTS website where all the products and services offered by SZABIST is represented.
- **SMART CROWD:** Website based on real state investments and renting based on blockchain tokens

March 2019 - Sept 2019

● Junior Software Engineer at PLANZ

- Design Prototype for Mobile Application
- Develop Mobile Application For International Clients

Education

□ MS-Computer Science From SZABIST

2019-2021

• Thesis Title

Artificial Intelligence and Internet of Things in Smart Industries for Improved Efficiency

□ BS-Computer Science From FAST-NUCES

2015-2019

• FYP Title

My final year project centered on Smart Bidding, incorporating AI-driven price suggestions, spam filtering, and an advanced bidding mechanism. The project utilized React Native for the user interface, Node.js for server-side functionality, and a MySQL database.

Activities

- **Final Year Project Exhibition at Iqra University:** I organized a final year project exhibition at Iqra University for students, providing them with a platform to present their projects. We invited various companies and software houses to attend, offering students the chance to showcase their skills and potentially secure industry job opportunities.
- **Annual Picnic at Iqra University:** Through my involvement with the Teknovative Society at Iqra University, I coordinated an annual outing to Turtle Beach, involving both faculty and students. This experience allowed me to further develop my leadership and organizational skills, demonstrating my capacity for effective event management.
- **Annual Pakistan Tour:** I played a central role where I successfully organized a 15-day Pakistan tour, uniting faculty and students. This experience served as a platform for honing my leadership and management abilities, showcasing my aptitude for adeptly managing such events.

Hard Skills

- HTML CSS
- JavaScript
- ReactJS
- ReactNative
- NodeJS, ExpressJS
- MySql

- C Programming
- Java
- Google Cloud Services
- Wordpress
- Mongo
- Python

Soft Skills

- Problem Solving Skills
- Communication Skills
- Critical Thinking
- Team Work
- Adaptability

- Time Management
- Leadership
- Creativity
- Resilience
- Research Skills