

Umema Ahmed

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Academic Qualification

2024

BS CS

Institute of Business Administration

Objective:

With a keen interest in emerging technologies and a commitment to continuous learning, I am aiming for a software engineering related role. I aspire to become a key player in designing systems that enhance user experiences and business processes. My objective is to apply my skills in developing scalable and efficient software solutions, contributing to the technological growth of an innovative organization.

Achievements:

- **High-Achiever's List:** Been in high achiever's list in matric and intermediate.
- **Game-Design:** Developed a scavenger hunt game for the IBA Game Fest'23, aimed at 90 high school students from various A-level colleges in Karachi. The design process involved collaboration, innovative thinking, and delivering a high-quality product within a demanding two-week timeline.

Major Reports/ Research Work/Projects

- **Final Year Project: X-Ray Auto Reporting System (In Collaboration with Indus Hospital, Pakistan):** Spearheaded the development of an innovative X-ray auto-reporting system aimed at revolutionizing diagnostic processes by automatically classifying chest X-ray images into pneumonia and normal categories. This pioneering project was undertaken in collaboration with **Indus Hospital**, demonstrating a seamless blend of academic knowledge and industry application.
- **Cloud Computing:** I did three major projects in this course.
 1. **Azure Blob Storage Integration:** Led a team of 3 to integrate Azure Blob Storage as a CDN in our final year project, achieving efficient and fast image retrieval.
 2. **Power Platform Application:** Developed a Power Platform application incorporating Power Automate and SharePoint for automated actions triggered by user interactions.
 3. **Power BI Cloud Dashboard:** Created a comprehensive dashboard using Power BI cloud for data visualization and analysis.
- **Fun2Learn Web Project:** Spearheaded a group of 3 in building a full-stack web application aimed at providing an interactive and visually engaging learning platform for kids of age between 5-7 years to enhance their educational experience at school for our web development elective. The app had interesting features of tracking kid's ongoing progress, quizzes etc.
- **Masterpieces Ltd Database:** Developed a web-based application for a painting hiring business management using Oracle Apex for the front-end and SQL for relational database management, providing hands-on experience with SQL and PL/SQL, including cursors and triggers for our Database Management course.

Professional Experience

Backend Development

June 2023 – January 2024

- I worked in a renowned tech startup "WonderTech" where I worked on a client project from the first day as a backend developer. The project was to develop an EdTech mobile app which enabled child's parents to schedule sessions with tutor and monitor child's learning progress. In this project, I worked on **Nodejs**,

Express, **MySQL** database (using **sequelize** ORM) and used **CPanel** for deploying code in the production and **GitHub** for effective team collaboration.

Skills

- Mastery in MERN Stack, Java, Python, C, SQL, Oracle Database.
- Skilled in Jira, Git, Agile Methodology, fostering a strong foundation in modern backend development practices.