

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:

- **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 a **deep-learning** based X-ray auto-reporting system aimed at revolutionizing diagnostic processes by automatically classifying chest X-ray images into pneumonia and normal categories. Successfully achieved **98%** accuracy using **ResNet-50** for **feature extraction** and implemented a **bulk upload functionality** for efficient classification, showcasing expertise in **image processing, feature extraction, and model training**.
- **Cloudlit Website:** Developed and launched a **fully responsive** portfolio website for the cloud-based startup "Cloudlit" using React. Ensured seamless performance across all devices, providing an optimal user experience.
- **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. Successfully built **interactive features** such as tracking kid's ongoing progress through lessons studied and quizzes attempted.
- **Cloud Computing:** I completed following projects successfully during the "Intro to Cloud Computing" course:
 1. **Azure Blob Storage Integration:** Led a team of 3 to integrate Azure Blob Storage as a CDN in my 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.

Professional Experience

Junior Backend Developer

June 2023 – January 2024

- Contributed to a high-profile client project from day one at the renowned tech startup "WonderTech," specifically for an Arab client.
- Developed backend of a robust EdTech mobile application that empowered parents to schedule tutoring sessions and monitor their child's learning progress.
- Utilized **Node.js** and **Express** for backend development, integrated **MySQL** with **Sequelize ORM** for efficient database management, and ensured smooth deployment using **cPanel**.

Skills

- Languages: Java (Expert), JavaScript (Proficient), Python (Advanced), C (prior experience)
- Databases: SQL(MySQL, Oracle), NoSQL(MongoDB)