

Essa Athar Zuberi

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PROFILE

A dedicated **software developer** and **systems designer**, constantly seeking efficient and innovative solutions. Committed to making education accessible and inclusive, particularly for persons with disabilities (PWD).

WORK EXPERIENCE

Software Developer

Family Educational Services Foundation (FESF)

09/2024 – present
Karachi, Pakistan

- **Lead Full-Stack Developer** for a Digital Lesson Tracker (**TALL stack** + **FilamentPHP** + **MySQL**) enabling nationwide content management and teacher logs.
- Developed an automated PSL sign video generator using **MoviePy**, exposing it via a **FastAPI** endpoint.
- Managing educational content on **Kolibri** using **Linux**, **WSL**, **Bash Scripts**, and **Python**.
- Cleaned and compressed large PSL datasets using **Python**, **Excel**, **ffmpeg**, and **Bash**.
- Contributed to PSL Dictionary redesign for mobile/desktop via **Mural**.
- Conducted **UI/usability testing** for platforms including Student Management System, a sign data collection app, and digital activities for deaf students.

Teaching Assistant

Habib University

08/2023 – 12/2023
Karachi, Pakistan

Supported students in the **Object-Oriented Programming & Design** course through lab sessions and weekly office hours.

EDUCATION

B.S. Computer Science

Habib University

CGPA: 3.40/4.00

08/2020 – 08/2024
Karachi, Pakistan

SKILLS

Laravel, FilamentPHP, Next.js, React, Python, FastAPI, Canva, Presentation Design, Design Thinking, UI Design, Bash Scripting, Linux

PROJECTS

Digital Educational Platform for Deaf Reach School

- Developed an e-learning platform for deaf children using the **MERN** stack.
- Led frontend development with **React**, integrating various components using **Material UI**.
- Assisted on the backend by implementing **APIs** and **MongoDB** queries.

Landing Page for Crewing Agency

- Developed a modern UI landing page for a maritime crewing agency using **Next.js** and **Tailwind CSS**.

PUBLICATIONS

Empowering Deaf Children Through Tabeer-e-Isharaat, A Digital Educational Platform

ACM Digital Library

06/2024

AWARDS

Best Research Award in Computer Science <i>Habib University</i> Received one of the top three prestigious awards in the Computer Science department at Habib University for the research conducted on my final year project.	05/2024
2nd Place, Best Oral Presentation Award <i>Habib University</i> Received the 2nd best oral presentation award at the DSSE Undergraduate Research Symposium (DURS) 2024 for my research presentation on my final year project.	05/2024
Winner, Speed Debugging Competition <i>NED University</i> Won the Speed Debugging Competition held at AI Fest 4.0 in NED University, where we identified and fixed bugs in provided problem solutions.	07/2023

EXTRA-CURRICULAR ACTIVITIES

Table Tennis Coach, SPLASH 2024 <i>Habib University</i> Coached a 4-week table tennis course for basic to intermediate students, focusing on fundamental skills, teamwork, and coordination.	06/2024 – 07/2024
Member, Habib University Men's Table Tennis Team Represented the university in various intra and inter-competition events.	09/2023 – 05/2024