

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

08/2020 – 08/2024
Karachi, Pakistan

CGPA: 3.40/4.00

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

06/2024

ACM Digital Library

AWARDS

Best Research Award in Computer Science

05/2024

Habib University

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.

2nd Place, Best Oral Presentation Award

05/2024

Habib University

Received the 2nd best oral presentation award at the DSSE Undergraduate Research Symposium (DURS) 2024 for my research presentation on my final year project.

Winner, Speed Debugging Competition

07/2023

NED University

Won the Speed Debugging Competition held at AI Fest 4.0 in NED University, where we identified and fixed bugs in provided problem solutions.

EXTRA-CURRICULAR ACTIVITIES

Table Tennis Coach, SPLASH 2024

06/2024 – 07/2024

Habib University

Coached a 4-week table tennis course for basic to intermediate students, focusing on fundamental skills, teamwork, and coordination.

Member, Habib University Men's Table Tennis Team

09/2023 – 05/2024

Represented the university in various intra and inter-competition events.