SHEZA MUNIR

Lahore University of Management Sciences · LUMS
Bachelors in Computer Science
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EDUCATION:

LAHORE UNIVERSITY OF MANAGEMENT SCIENCES   08/19 - 06/23

Syed Babar Ali School of Science and Engineering
Computer Science Major- **CGPA: 3.97 – Dean's Honor List**
100% Merit Scholarship

GARRISON ACADEMY FOR CAMBRIDGE STUDIES   08/17 - 06/19

A levels – **2A*, 1A - Valedictorian**

AWARDS AND ACHIEVEMENTS:

100% Merit Scholarship
LUMS
Class rank: 2/242

NATIONAL SCIENCE TALENT CONTEST
Higher Education Commission
National Winner

51ST INTERNATIONAL CHEMISTRY OLYMPIAD
Paris, France
Represented Pakistan
Placed 4th internationally – Honorable Mention

OUTSTANDING VOLUNTEER SERVICE AWARD
By the US Dept of State
KL-YES Youth Exchange and Study Program

RESEARCH PROJECTS:

MIGRAINE MANAGEMENT - PAKISTANI PATIENTS - WriteUp
Supervisors: Dr Basma Ali (MIT), Dr. Suleman Shahid (PhD, University of Tilberg)
Action items: Conducted **user research** with migraine patients and neurologists, **designing a wearable tech app for migraine management and early detection using EDA and heart rate.**

PHYSICAL THERAPY APPLICATION FOR THE DISABLED (PSRD) - WriteUp, Figma Prototype
Supervisor: Dr. Suleman Shahid (PhD University of Tilberg)
Action items: In collaboration with **Pakistan Society for Rehabilitation of the Disabled**. I conducted **user research** with the patients and doctors at PSRD Hospital, **designed and implemented an application for physiotherapy** in the context of **low-income, low-literate** end users
Tools: Figma, Photoshop

BAANG - SOCIAL MEDIA FOR THE VISUALLY IMPAIRED - CSALT LUMS
Supervisor: Dr. Agha Ali Raza (PhD. Carnegie Melon University)
A **Centre for Speech and Learning Technologies** Project. I performed **sentiment analysis and emotional tagging** of the content shared with and by the users. Researched the need and implementation of a female safe space on the platform.

FINANCIAL LITERACY IN YOUNG ADULTS - Foundry Internship - Summary
Supervisor: Dr. Suleman Shahid (PhD University of Tilberg)
Action items: I **designed an app for financial literacy**, executed **user research**, and covered 4 out of the 5 phases of **User Centred Design (UCD)**. The portal was designed to offer financial literacy to young adults, in the context of Pakistan.
Tools: - Figma, Photoshop

PORTABLE ACCESSIBILITY RAMP FOR PUBLIC TRANSPORT - PSRD - WriteUp

Supervisor: Dr. Suleman Shahid (PhD University of Tilberg)
Action items: Designed a low cost, portable accessibility ramp for public transport in Pakistan. This is an empathy-based research project, in collaboration with Pakistan Society for Rehabilitation of the Disabled (PSRD).
Tools: Unity, Solidworks

ASVspoof Urdu Dataset - CSALT LUMS

Supervisor: Dr. Agha Ali Raza (PhD. Carnegie Melon University)
Action items: Created the Urdu Dataset for automatic speaker verification spoofing and countermeasures.

SKILLS:

MERN stack	Flutter
C++	Figma
Python	Photoshop
HTML	Usability Studies
JavaScript	SolidWorks
CSS	Google Colab
Haskell	Machine Learning
Human Computer Interaction	Django
User Centred Design	Latex
UI/UX	Unity

PROGRAMMING PROJECTS:

GHAMBEEL - TIME MANAGEMENT APP - GitHub

Designed and implemented a time management app for LUMS students. Key features: to-do list, pomodoro timer, deadlines calendar, statistics. - **Flutter and MySQL**

ORPHANAGE MANAGEMENT SYSTEM - GitHub

Implemented an Orphanage Management System using **Django (Python), JavaScript and MySQL**. Set up a DB of **10,000 entries**, catering to use cases such as adoption application, certificate generation and funds management, etc.

NEURAL NETWORK FOR IMAGE CLASSIFICATION - GitHub

Machine Learning-Deep Learning- Neural Network that classifies images in Fashion MNIST dataset from Keras library- **Python**

FILE SHARING APPLICATION - GitHub

Coded a file sharing application-**socket programming**-based on **consistent hashing and Distributed Hash Tables - Python**

HOWDOI – OPEN SOURCE PROJECT - GitHub

Worked on the Howdoi, a command line application that answers coding queries using multiple search engines. I worked on setting up fall backs for the application in case of search engine failures or blocks. Tested implementation by unit testing. - Python, Javascript, HTML, CSS

EXPERIENCE:

RESEARCH ASSISTANT, CSALT LUMS

Aug 2021 – Present
Worked on projects on HCI and ML, moderated content on Baang, a social media platform for visually impaired.

GOOGLE DEVELOPER STUDENT CLUB LEAD, LUMS

Aug 2021 – Present
Hold tech talks, tech camps, data science projects, teach workshops for the students, in collaboration with other DSCs.

VICE PRESIDENT, INDEX
June 2021 – Present
INDEX is the Design and Innovation society at LUMS.
We hold Design Sittings, talks, workshops and
competitions centred around UI/UX and visual design

OPEN-SOURCE FELLOW, MLH Fellowship
June 2021 – August 2021
Worked on the latest release of CLI application,
'howdoi'. Added unit testing for block errors, fallbacks,
and set up documentation for the project.

TECHNICAL CONTENT WRITER, EDUCATIVE
June 2021 – September 2021
Researched and wrote about CS topics, ranging from
the use of specific functions in multiple programming
languages to the research in top international labs.

STACKS CLARITY BOOTCAMP, STACKS PAKISTAN
April 2021 – July 2021
Blockchain technologies bootcamp

IEEE LUMS-Director
August 2020 – June 2021
IEEE LUMS is the Engineering and CS frontier at LUMS.
Organized and designed coding problems for the
biggest national coding competition

SOFTWARE QUALITY ASSURANCE INTERN, AFINITI
June 2020 - August 2020
Afiniti is an applied artificial intelligence and advanced
analytics provider. Worked as an intern on their new
call-center based software