Allah Rakha
Full Stack Web Developer

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EXPERIENCE

Oasis Infobyte Internship   Remote
MERN stack Development   Oct 2023 – Nov 2023

- Developed a dynamic user-friendly pizza website using MERN stack, Redux, and EmailJs, showcasing expertise in registration, email notifications for admin, password recovery, and admin controls.

Info Aidtech Internship   Remote
Web Development   Aug 2023 – Sept 2023

- Completed projects such as a MERN stack restaurant website and a responsive HTML/CSS/JS temperature converter, demonstrating strong front-end design skills and proficiency in modern web technologies.

NUST Robotics Club   Islamabad, Pakistan
Deputy Director Web & IT   Dec 2023 – ongoing

- Collaborated on the development of the society's website and provided oversight to ensure its seamless execution, effectively promoting the NRC mission.

ORGANIZATIONS

- **Youth Entrepreneurship Society —** Executive Social media 2022
- **NUST Technical Amusement Club —** Executive Social media 2021
- **NUST IEEE SOCIETY —** Executive Sponsorship 2022

EDUCATION

National University of Science and Technology   Nov 2021 —May 2025

Islamabad, Pakistan
BS Computer Science

PROJECTS

Chrome Extension for Color Blind People   JavaScript/HTML/CSS/NodeJS

- This project is related to developing a chrome extension for color blind people.
- It helps color-blind patients to recognize the different colors on a website in which they face difficulty. In addition, it stores the patient's data including its disease and then the extension works according to the disease of the login patient.
- MongoDB Atlas is used to store data.

JSON-FILES SEARCH ENGINE   Python/ NLTK Library

- Implemented search engine based on Google's "Large-Scale Hypertextual Web Search Engine" research paper.
- Capable of searching 6 GB of JSON data with over 1 million articles in less than a second.
- Achieves rapid search results for queries containing 4-5 words.

Hospital Management Website   HTML/CSS/PHP/MySQL

- Comprehensive management system for doctors, patients, mobile service, cleaning staff, and room inventory.
- Admin privileges for full control over system functions and data management.
- Doctors empowered to examine patients, record diagnoses, and manage medical prescriptions.
- Features include billing, accounting, and other administrative tasks for streamlined operations.

Sign Language Detection   ML/Python/Tkinter

- Developed a Sign Language Recognition system using MediaPipe for hand landmark detection and Tkinter for the graphical user interface (GUI), enabling real-time interpretation of hand gestures.
- Leveraged a meticulously curated dataset of 87,000 images representing 29 classes of American Sign Language (ASL) gestures to train the Convolutional Neural Network (CNN) model.
- Implemented a dynamic GUI with Tkinter, providing users with instant feedback on recognized characters, word formation, and cumulative sentences.
- Incorporated MediaPipe for real-time hand tracking, allowing the system to identify the region of interest around the hand for gesture recognition.

SKILLS

- **Programming:** NodeJS — Python — C/C++ — MySQL — MERN Stack — NextJS — Php
- **Software:** Git/GitHub — Browser Debuggers.
- **Libraries/Frameworks:** Bootstrap — Tailwind CSS — Tkinter — Pygame — Matplotlib — Pandas