Muhammad Wajdan Ismail

Full Stack Developer

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Education

National University of Computer and Emerging Sciences - FAST　　　　　　　**August 2020 – June 2024**
Bachelor of Science in Computer Science　　　　　　　　　　　　　　　　　　　　*Karachi, Pakistan*

Relevant Coursework

- DevOps
- Agile Methodology
- Data Science
- Recommender Systems

Technical Skills

Frontend: ReactJS • MUI • Bootstrap

Backend: NodeJS • ExpressJS • REST API

DataBase: PostgreSQL • Oracle • MongoDB • MySQL

Programming: Algorithms • Object-Oriented Programming • Data Structures

Languages: JavaScript • Python • C/C++

Experience

syslab.ai　　　　　　　　　　　　　　　　　　　　　　　　　　　**January 2024 – Present**
MERN Stack Developer Intern　　　　　　　　　　　　　　　　　　　　　*Karachi, Pakistan*

- Gained Hands-on experience in designing and maintaining production level website using ReactJS, Material-UI and NodeJS.
- Frontend: Designed React pages and components from figma templates and worked on the responsiveness, API integration & Role Based Routing of the application. **View the Website here at proctorparhai.com**
- Backend: Implemented the Captcha Functionality on server-side which was earlier handled in the browser.

Final Year Project

Namaz Posture Correction (ISLAH AI)　　　　　　　　　　　　　　　**August 2023 – April 2024**

- **Overview: Used Computer Vision tools and libraries such as MediaPipe and OpenCV to monitor a person's entire Namaz and generate a feedback analysis based on certain measures which will point out what mistakes they are doing during their Namaz.**
- Using Google's MediaPipe for extracting coordinates of key body points.
- Using Flutter to build mobile application for users to record their Namaz and get instant feedback.

Personal Projects

Social Media Website

- **Features: Like/DisLike, Follow/UnFollow, Upload Posts, Videos and Pictures**
- Frontend is built using **create-react-app**. Used **Material-UI** for styling, **axios** for making requests to the backend and used **react-router-dom's HashRouter** for routing.
- Backend is built using express.js for setting up middlewares and routes , Used mongoose for database operations and schema design.

Restaurant Website

- Features: Menu Categorization, Add to Card, CRUD Operations on Items & Users
- Frontend is built using **create-react-app**. Used **Bootstrap** for styling, **fetch api** for making requests to the backend and used **react-router-dom's BrowserRouter** for routing.
- Used **UseReducer** and **ContextAPI** for global state management

Sorting Visualiser

- **Features: MergeSort, RadixSort, BubbleSort, CountSort**
- Used PyGame to create a GUI in python that visualizes the different types of sorting of a random shuffled dataset represented in a bar chart.