

Moiz Masood

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EDUCATION

NED University of Engineering and Technology

Bachelor of Engineering in Software Engineering

Karachi, Pakistan

September 2019 – October 2023

Our Own English High School

Major in Computer Science

Sharjah, UAE

April 2005 – March 2019

EXPERIENCE

Software Engineer

Family Educational Services Foundation

April 2024 – Present

Karachi, Pakistan

- Developed and maintained multiple projects using the TALL (Tailwind, AlpineJS, Laravel, and Livewire) stack
- Lead the development of isharay.pk, a web application that allows users to upload and vote on sign-language videos
- Played a key role in developing a highly successful Quiz Management App, integrating advanced data analytics and enabling quizzes across nine branches, engaging thousands of students across different grade levels
- Built CRUD admin panels with Filament, cutting development time and effort by 80%
- Streamlined the development process by leveraging Blueprint to efficiently scaffold Data Models, Migrations, and Factories
- Optimized project deployment by setting up Docker on WSL, integrating Amazon S3 for scalable storage, and deploying on DigitalOcean
- Utilized Git for effective version control and seamless team collaboration

Software Engineer, Intern

Civil Aviation Authority

September 2023 – November 2023

Karachi, Pakistan

- Spearheaded the development of specialized software aimed at streamlining email data extraction and cataloging
- Enhanced data analytics through seamless database integration
- Acquired hands-on experience with Microsoft Exchange Server, contributing to a comprehensive skill set
- Orchestrated and managed company meetings, honing problem-solving and critical thinking skills

Software Engineer, Intern

Pakistan Council of Scientific and Industrial Research

September 2022 – October 2022

Karachi, Pakistan

- Enhanced algorithm accuracy by 15% through the collaborative refinement of machine learning models
- Showcased strong communication prowess by actively engaging in code reviews with team members

Computer Science, Intern

ESRI

June 2018 – July 2018

Sharjah, UAE

- Played a role in refining ESRI's GIS mapping software by contributing minor code enhancements, gaining valuable insights into software development methodologies and requirements elicitation
- Acquired a robust understanding of project management principles

PROJECTS

NovaCare | *Laravel, Filament, Stripe, MySQL, DigitalOcean*

- A web application built using Laravel and Filament that allows users to securely upload ECG graphs for medical assessment
- Created patient and doctor panels with Filament, offering user-friendly interfaces for uploading and reviewing ECG data
- Integrated Stripe for tiered service payments and used webhooks to track real-time payment status
- Utilized Blueprint to efficiently scaffold the project's initial structure, including models, migrations, and seeders, accelerating development time
- Deployed the application on a DigitalOcean droplet using Apache, ensuring a reliable and scalable hosting environment

isharay.pk | *Laravel, Livewire, Filament, MySQL, DigitalOcean*

- A web application built using Laravel and Livewire to enable users to upload and vote on sign-language videos
- Implemented advanced video recording and upload capabilities using the MediaStreamRecorder library
- Leveraged Filament to develop a robust admin panel for streamlined content and user management
- Managed user roles and permissions with Spatie's laravel-permissions package, ensuring secure access control
- Used Laravel Breeze for Authentication
- Deployed the application on DigitalOcean along with Amazon S3 for video storage

AI Powered To-Do App | *React, Gemini*

- An AI-powered To-Do App built using React, enabling users to add tasks that are automatically prioritized by AI.
- Leveraged Gemini's AI capabilities to implement an intelligent task prioritization system, enhancing task management by dynamically organizing tasks based on their importance.

Primero Avionics | *PHP, JavaScript, Bootstrap, MySQL*

- A full-stack web-based Airline Management System with interactive seat selection to book and manage flights
- Used Bootstrap and Javascript to design the frontend, and PHP for the backend
- Integrated the website with Heroku's ClearDB that stores all the user and flight details using a normalized schema
- Deployed the web application on Heroku

Email Extraction System | *Python, Tkinter, MySQL*

- Developed a desktop application using Python with the new modern Custom Tkinter as the frontend
- Implemented exchangelib to fetch and extract the emails and its contents from the employees' mailboxes on the CAA's Microsoft Exchange Server
- Integrated the system with an existing database after designing a normalized schema for efficient data management
- Used a local storage server to store the files for easy access by the system

Automatic Number Plate Recognition System | *Python, OpenCV, EasyOCR*

- A Python based program to read a vehicle's number plate and store the information in a file
- Developed robust image processing techniques to enhance accuracy of plate number recognition
- Ensured seamless functionality through effective integration of OpenCV and EasyOCR components

Flappy Bird Game | *C#*

- A Flappy Bird inspired game incorporating distinct levels and graphics
- Programmed interactive gameplay mechanics and obstacle functionalities

TECHNICAL SKILLS

Languages: PHP, Python, C#/C++, Javascript, HTML/CSS, SQL

Frameworks: Laravel, Filament, React, Tailwind, Bootstrap, Selenium, TensorFlow, Pytorch, Tkinter

Developer Tools: Git, VS Code, PHPStorm, Visual Studio, PyCharm, Eclipse, Katalon

Libraries: pandas, NumPy, Matplotlib, OpenCV, EasyOCR, exchangelib