

Mian Shah Hassan

Full-Stack Developer

CONTACT

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PROFESSIONAL EXPERIENCE

Full-Stack Developer | March 2021 – September 2023 (Full Time) – Sep 2023 – Present (Part time)

Green Guardians | Knowledge Platform

- Developed and deployed secure, RBAC-enabled APIs for the Admin Panel.
- Designed CI/CD pipelines with EC2 & GitHub Actions for streamlined deployment.
- Implemented multi-tenant architecture and a review-based workflow system.
- Integrated Stripe for payments, added promo/school codes for premium access.

Research Assistant | October 2023 – December 2025

XRHIVE Lab

- Set up and integrated the Pico 4 headset with Unreal Engine, including custom key bindings, environment configuration, and creation of a complete onboarding flow with supporting technical documentation.
- Developed a maritime towing simulation for rough-sea scenarios, focusing on realism, stability, and accurate interaction behavior.
- Worked on a collaborative learning application using WebXR, enabling multi-user interaction and immersive educational experiences directly in the browser.
- Conducted a structured user study, including participant onboarding, task design, data collection, and qualitative/quantitative analysis.

JavaScript Developer | August 2020 – February 2021

E-Sparks

- Built backend with Laravel, Eloquent, and MySQL for doctor appointment bookings.
 - Developed an Admin dashboard using React and Laravel for seamless frontend and API integration.
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EDUCATION

NUST H-12, Islamabad | 2023– Present

Masters in Information Technology (Course Work Completed)

For my thesis, I am developing a collaborative learning application using WebXR that supports remote learning without requiring a fixed platform or resource-intensive devices.

Pakistan Institute of Engineering and Applied Sciences | 2016–2020

Bachelors in Computer and Information Sciences

SKILLS

Languages: JavaScript, HTML, CSS, Python

Frameworks: ReefJS, React, NodeJS, .NET, Svelte, Django, WebXR

Databases: MYSQL, MongoDB, PostgreSQL, Sequelize, Dapper

Cloud Services : AWS, Netlify, GCP

Others: Odoo, Salesforce, HubSpot, Webflow, bubble, Wix, Unreal Engine, Blender

**PROJECTS |
FREELANCE**

Circler Io

- Reports, user dashboard, transactions and inventory management for ticket brokers in USA
- Unit tests for critical application parts
- Add user tutorials for onboarding
- Integration of Stripe, rewardful and hotjar

Inventory Management System

- Migrated a Streamlit application to Django, ensuring smooth integration and improved scalability.
- Deployed the Django application on Google Cloud Platform (GCP).

Automated Message sending desktop App

- Developed an Electron app to schedule and send messages on Facebook and Instagram.

LANGUAGE

ENGLISH | URDU