

# Hassan Raza

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## SUMMARY:

Full Stack Developer with strong experience building and optimizing high-performance, user-focused web applications using modern technologies such as Next.js, React, and Node.js. Skilled in backend APIs, databases, AI integration, performance optimization, and scalable system design.

## TECHNICAL SKILLS:

- **Programming Languages:** JavaScript, TypeScript, Python
- **Frontend:** React, Next.js, Redux Tailwind CSS, ShadCn
- **Backend:** Node.js, Express.js, Django, Flask, REST APIs
- **Databases:** MongoDB, PostgreSQL, MySQL, NeonDB, Prisma
- **Cloud & Deployment:** AWS, Vercel, Netlify, Hostinger

## EXPERIENCE:

### **Freelance Web & AI Developer – Remote**

May 2023 – Present

- Designed, developed, and maintained **end-to-end full stack applications** using React/Next.js, Node.js, REST APIs, and modern databases, with a focus on scalability and clean architecture.
- **Co-Founded and currently maintains a production-ready SaaS platform (Affiliate Begins)**, handling product development, feature iteration, performance optimization, and ongoing maintenance.
- Implemented secure **authentication, role-based access, protected workflows, and real-time data features** for SaaS and web applications.
- Integrated **AI-powered features and APIs** to automate content generation, analytics, and user workflows, improving efficiency and overall user experience.
- Debugged and resolved complex frontend and backend issues, ensuring application stability, reliability, and maintainability in production environments.

### **Web Development Intern – Peshawar, Pakistan**

June 2021 – August 2022

- Assisted in developing and maintaining websites using **HTML, CSS, JavaScript, WordPress, and frontend/backend frameworks**.
- Updated website content, resolved layout and responsiveness issues, and improved **page load performance** across devices.
- Supported senior developers in **debugging frontend and backend issues** and implementing client-requested features and fixes.

## PROJECTS:

### [\[LINK\]](#) Deep Learning-Powered Real-Time Crowd Management System - *Backend Development and Deep Learning*

Tech Stack: Python, YOLOv8, OpenCV, Cvzone, Google Colab

- Developed a **YOLOv8-based object detection model** achieving 98% accuracy in identifying individuals in crowded BRT station environments, outperforming traditional systems.
- Built and optimized a **full backend pipeline** for video capture, preprocessing (frame resizing, noise reduction, normalization), real-time head detection, counting, and data visualization using Python, OpenCV, and Cvzone.
- Implemented and evaluated the model on a **custom dataset of 200+ annotated images**, improving system precision and recall to near-perfect levels, reducing false positives by 15%.
- Published **research findings** in an IEEE Xplore-indexed conference paper, demonstrating scalability of the system for public transport networks worldwide and potential for future edge computing integration.

### [\[LINK\]](#) Affiliate Begins Toolkit *Frontend and Backend Development*

Tech Stack: Next.js, React, TypeScript, Tailwind CSS, shadcn/ui, NeonDB (PostgreSQL), Prisma, Vercel, OpenAI API, Gemini API

- Designed and developed a **production-ready SaaS web application** providing an all-in-one toolkit for affiliate marketers to streamline workflows and increase productivity.
- Built secure integrations with **6 major affiliate networks** (ClickBank, Digistore24, JVZoo, BuyGoods, MaxWeb, Hotmart), enabling **automated sales tracking** with hourly sync and 90-day historical data import.
- Implemented a **real-time analytics dashboard** displaying earnings metrics, trends, and performance insights across multiple affiliate networks.
- Developed **AI-powered content generation features** for social media posts, ads, and marketing materials using OpenAI and Gemini APIs.

### [\[LINK\]](#) Sonic Sync – Inclusive Community Platform for the Deaf - *Frontend and Backend Development*

Tech Stack: React, Tailwind CSS, React Router, React Hook Form, Supabase (PostgreSQL, Auth, Storage, Realtime), Netlify (Deployment)

- Developed and deployed a **full-stack web application** that empowers the Deaf community through sign language courses, inclusive job opportunities, and a vibrant discussion forum, resulting in a comprehensive learning and networking ecosystem.
- Built a **modern, responsive frontend** using React, Tailwind CSS, React Router, and React Hook Form, delivering a visually polished and fully accessible user interface.
- Integrated a **robust Supabase backend** featuring PostgreSQL database, secure authentication (email/password + Google OAuth), storage for media and resumes, and real-time updates for forum interactions and notifications.
- Implemented **advanced user role management** with distinct dashboards for admins, users, and instructors.

## EDUCATION:

Iqra National University - Peshawar | Bachelor of Science in Computer Science | October 2020 - September 2024