Zainab Gilani

Software Engineer

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Profile

Web developer with hands-on experience in 10+ real-world projects, covering everything from responsive UIs and backend systems to basic DevOps integration. I enjoy building dynamic and user-friendly interfaces, and I've worked with tools like Docker and Kubernetes along the way.

Education

BSE Software Engineering *Fatima Jinnah Women University Rawalpindi*   *2022-2026*

Relevant Courses:

- Object Oriented Programming (OOP)
- Artificial Intelligence
- Data Structure & Algorithms (DSA)
- Computer Networks
- Database Systems
- Software Construction Development
- Cloud Computing
- Software Design & Architecture

Experience

AI Web Developer Intern *(NASTP)*   *July 2025*

Developed a PDF reader application with question-answering capabilities using Retrieval-Augmented Generation (RAG) and contributed to integrating MMAction2 for sports video action recognition.

Skills

- **Web Frameworks:** Next JS, React, Streamlit, Gradio

- **Backend:** Node.js

- **Database:** SQL, SQLite, PostgreSQL , Firebase, Prisma(ORM)

- **Tools and Tech:** UI/UX Design, Web Scraping, Figma, Git, GitHub, Gitlab, Vercel

Web Projects

Appointment Booking App

A clean, responsive pediatric specialist website with services, health tips, patient reviews, and easy appointment booking with email notifications.

- **Role:** Created a fast medical portfolio with simple appointment booking and email alerts.
- **Technologies:** Next JS, Typescript, Tailwind CSS

School Lama

A complete school management project with roles as student, parents, teachers and admin. Integrated with ORM and as a full stack project it has the potential to handle a basic school.

- **Role:** Completed the project as an individual developer with full stack product.
- **Technologies:** Next JS, Prisma, PostgreSQL, NodeJS

Ask PDF

An AI-powered PDF Question-Answering application that allows users to upload multiple PDFs and query their content in natural language. The system reduces manual document search time by up to 80% through intelligent embeddings, vector search, and LLM-based answers with cited sources.

- **Role:** Completed the project as an individual developer building both the backend and frontend.
- **Technologies:** Streamlit, LangChain, HuggingFace Embeddings, FAISS, Mistral LLM, Python

Infectious Diseases

Developed the backend for a disease hotspot prediction system using machine learning algorithms including Genetic Classification, Fuzzy C-Means, Autoencoders, and Apriori.

- **Role:** Developed backend APIs and integrated machine learning algorithms for data processing and predictions.

- **Technologies:** Django

TechVision - AI-Powered Digital Agency Platform

A high-performance landing page for a software agency featuring a custom AI chatbot for client engagement and automated email systems.

- **Role:** Built the entire app from scratch with a responsive UI and backend integration for AI features and email services.

- **Technologies:** Next.js, TypeScript, Tailwind CSS, React

Real Time Chat App

Developed a real-time chat application with room-based messaging, real-time communication using WebSockets, and a responsive user interface.

- **Role:** Built the full-stack solution with real-time backend and a responsive, interactive frontend.

- **Technologies:** Flask, Socket.IO, HTML, CSS, JavaScript

Co-Curricular Activities

- **Youth Empowerment (Deputy Lead)** - Started as Operations Team Co-Lead, promoted to Deputy Lead.

    - Organized **10+** online events at the start of tenure.

- **AICP FJWU(University Chapter Lead)** – Leading tech awareness sessions with 50+ members.