

# Zainab Gilani

Software Engineer

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## Profile

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Web developer with hands-on experience in 15+ 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

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**BSE Software Engineering** *Fatima Jinnah Women University Rawalpindi*

2022-2026

### Relevant Courses:

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

## Experience

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**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

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- **Web Frameworks:** Next JS, React, Streamlit, Gradio
- **Backend:** Node.js
- **DevOps:** Docker, Kubernetes
- **Database:** SQL, SQLite, PostgreSQL , Firebase, Prisma(ORM)
- **Tools and Tech:** UI/UX Design, Web Scraping, Figma, Git, GitHub, Gitlab, Vercel

## Web Projects

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### 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

## **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

## **Restaurant Booking System**

A multi-page reservation platform with form validation, date picker, and smooth scrolling for a user-friendly booking experience.

- **Role:** Created the frontend with form interactions and streamlining the booking process
- **Technologies:** HTML, CSS, JavaScript

## **Quiz Application**

An interactive MCQ-based quiz app with real-time score tracking, retry options, and responsive design.

- **Role:** Designed the complete system and built real-time quiz logic using advanced JavaScript.
- **Technologies:** HTML, CSS, JavaScript

## **Co-Curricular Activities**

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- **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.