

Fatima Tufail

Web Developer

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Electrical Engineering graduate with strong Python-based web development skills. Experienced in building full-stack Flask applications with authentication, database integration (SQLAlchemy), and REST API usage. Built multiple real-world web projects including a portfolio website, blog system, weather app, and Quran API app. Strong engineering background brings structured problem-solving, logic, and system design to software development.

Technical Skills

Web Development - Flask, Jinja2, HTML5, CSS3, Bootstrap

Backend & Databases - Python, SQLAlchemy, SQLite, REST APIs, Authentication

APIs & Data - JSON, Weather API, Quran API

Tools - Git, VS Code, Postman

Engineering & Data - NumPy, Pandas, MATLAB

Projects

Personal Portfolio Website

(Flask, HTML, CSS).

- Designed and built a personal portfolio website to showcase projects, skills, and contact information.
- Implemented responsive UI and clean navigation using HTML, CSS, and Bootstrap.
- Used Flask for backend routing and template rendering.

Blog Web Application

(Flask, SQLAlchemy).

- Built a full-stack blog platform with user registration and login.
- Implemented CRUD operations for posts (create, read, update, delete).
- Designed relational database using SQLAlchemy ORM.
- Added role-based authorization so only post authors can edit or delete their content.

Weather API Project

- Developed a Python project to fetch real-time weather data using a public API.
- Implemented backend API calls and processed JSON responses with proper error handling.
- Displayed dynamic weather information in the terminal for user-specified cities.

Quran API Project

- Developed a Python project to retrieve Surahs and verses from a public Quran API.
- Implemented backend API requests, parsed JSON responses, and displayed results in the terminal.
- Handled random verse selection and error responses efficiently.

Education

Bachelor of Science in Electrical Engineering

2020 - 2024

PIET University, Multan

CGPA: 3.95

Member of Discipline Committee.