

# 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 App**

- Developed a web app that fetches real-time weather data using a public API.
- Implemented backend API calls in Flask and displayed dynamic data on the frontend.
- Handled JSON responses and error handling.

#### **Quran API Web App**

- Built a web application that retrieves Surahs and verses using a Quran API.
- Implemented backend API requests, JSON parsing, and frontend rendering.

### Education

**Bachelor of Science in Electrical Engineering**

2020 - 2024

PIET University, Multan

CGPA: 3.95

Member of Discipline Committee.