

DEEPAK PANDEY

Python Backend Developer

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Education

Teerthanker Mahaveer University

Bachelor of Computer Applications

Aug. 2023 – June 2026

Moradabad, Uttar Pradesh

Experience

Solidate Infotech

Software Engineer Intern

Jan 2026 – Apr 2026

Moradabad, Uttar Pradesh

- Built and tested REST API endpoints using Python and FastAPI, ensuring proper request handling and response formatting for backend services.
- Wrote and executed test cases to validate API functionality, tracked bugs, and documented fixes to improve overall code reliability.
- Used Git and GitHub for version control, managing code commits and collaborating on shared repositories during the internship.

Alfido Tech

Python Developer Intern

May 2025 – August 2025

Remote

- Developed backend modules using Python and Fast API to handle user data, form submissions, and server-side logic for internal web applications.
- Connected application to PostgreSQL database using SQLAlchemy ORM to perform CRUD operations — create, read, update, and delete records.
- Tested APIs using Postman to verify endpoints were returning correct data and handling errors like missing fields or invalid input properly.

Projects

Vocal-Vantage | *Python, Flask, PostgreSQL, OpenAI Whisper, JWT*

[Github](#)

- Built an **AI-powered** speech coach that detects filler words ("umm", "uh", "like") and measures WPM, pause frequency, and fluency, helping speakers identify and fix weak spots.
- Created an audio pipeline where user recordings are transcribed, analyzed by an LLM, and returned as a **JSON report** with fluency score and feedback in under 3 seconds.
- Added **JWT-based login** and PostgreSQL storage to save each user's speech history so progress can be tracked over multiple sessions.
- **Tested all API** endpoints using **Postman** verified request/response flow, **JWT token handling**, and edge cases like empty audio and invalid input.

SpeakU | *FastAPI, WebRTC, WebSocket, PostgreSQL, Redis, Docker, JWT, GitHub*

[Github](#)

- Architected a real-time language exchange platform enabling **peer-to-peer voice calls** between native speakers using **WebRTC** and **WebSocket**, eliminating third-party service costs.
- Implemented **Redis-based matchmaking** queue with sub-2-second pairing for users with complementary language preferences (Hindi-English exchange).
- Built **WebRTC** signaling server with STUN protocol for secure peer-to-peer voice calls supporting unlimited free minutes with HD audio quality.
- **Containerized FastAPI** application with **Docker**, deployed with **PostgreSQL (Supabase)** and **Redis (Upstash)**, documented via auto-generated Swagger docs..

Skills

Languages: Python, SQL

Backend: FastAPI, Flask, RESTful APIs, JWT Authentication, SQLAlchemy, API Integration

Databases: PostgreSQL, SQLite, MongoDB

DevOps: Git, GitHub, AWS(EC2, S3, RDS), Postman, Docker

Soft Skills: Leadership, Problem Solving, Team Collaboration, Communication, Adaptability

Certificates / Extracurricular

- 2x Finalist and Mentor of SpeechMasters - A Public Speaking Event
- Certificate of Generative AI Essentials by TCSiON
- Certificate of McKinsey Forward Program