

SHOAIB JAVEED

Backend Developer

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Lahore, Pakistan

PROFESSIONAL SUMMARY

Backend Developer specializing in FastAPI, Flask and PostgreSQL. Experienced in building REST APIs, business applications, real-time systems, and workflow automation tools. Developed multiple production-style projects including POS systems, learning management platforms, and real-time communication applications.

TECHNICAL SKILLS

- **Languages:** Python, C++, JavaScript
- **Backend:** FastAPI, Flask, REST APIs, WebSockets
- **Databases:** PostgreSQL, MySQL, SQLite, SQLAlchemy
- **Libraries:** Pandas, OpenCV, ReportLab, Flet
- **Frontend:** HTML, CSS, JavaScript
- **Tools:** Git, GitHub, Linux (Arch, Ubuntu), VS Code, Docker

TECHNICAL EXPERIENCE

- **Backend Development (Collaborative Learning Team)**
 - Developed REST APIs using FastAPI and Flask.
 - Designed PostgreSQL databases using SQLAlchemy.
 - Collaborated with teammates using Git and GitHub.
 - Participated in debugging, testing, and feature implementation.
- **Python Virtual Internship – CodeAlpha**
 - Completed Python programming assignments and practical exercises.
 - Strengthened core Python programming and problem-solving skills.
 - Successfully completed all assigned tasks and earned the internship certificate.

PROJECTS

- **My Local Shop — POS & Inventory System** [GitHub](#) • [Live Demo](#)
 - Developed an offline-first POS and inventory management system for retail businesses.
 - Designed the backend architecture, SQLite database, desktop interface using Flet, and invoice generation.
 - Implemented billing, inventory tracking, customer management, and sales reporting modules.
 - **Tech Stack:** Python, Flet, SQLite, AsyncIO, ReportLab, PyInstaller
- **Learning Management System (LMS)** [GitHub](#) • [Live Demo](#)
 - Developed a multi-role academic management system for administrators, teachers, coordinators, and students.
 - Implemented JWT authentication, role-based access control, and RESTful backend APIs.
 - Designed and managed the PostgreSQL database using SQLAlchemy.
 - **Tech Stack:** Flask, PostgreSQL, SQLAlchemy
- **Offline LAN Messaging & File Sharing App** [GitHub](#)
 - Built a real-time messaging and file-sharing application for devices on the same local network.
 - Implemented WebSocket communication for instant messaging and backend APIs for file transfer.
 - Enabled peer-to-peer LAN file sharing without requiring an internet connection.
 - **Tech Stack:** Python, Flask, Flask-SocketIO, WebSockets
- **MediaMorph — Media Transformation Toolkit** [GitHub](#)
 - Developed a desktop application for converting PDFs to images and images to PDFs.
 - Built the media processing engine and desktop interface for an intuitive user experience.
 - Implemented efficient document and image conversion workflows.
 - **Tech Stack:** Python, PyQt6, PyMuPDF, Pillow

EDUCATION

- Bachelor of Science in Computer Science (BSCS)** Expected: 2027
University of the Punjab
Government Islamia College Civil Lines, Lahore

ADDITIONAL INFORMATION

- Languages:** Urdu (Native), English