

Syed Muhammad Jawwad Irshad

Python Backend Engineer | AI Automation

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Summary

Python Backend Engineer specializing in backend development, API integration, and AI-powered automation using Python, FastAPI, and Django REST Framework. Experienced in building scalable backend services, REST APIs, and automated data processing solutions across 30+ web platforms using Selenium and Playwright. Skilled in integrating third-party and LLM APIs, including OpenAI, and developing reliable, maintainable applications with PostgreSQL, MySQL, and LangChain.

Skills

- **Programming Language** — Python, Javascript, C++
- **Backend Development** — FastAPI, Django REST Framework, REST APIs, API Integration
- **AI & LLM Integration** — OpenAI API, LangChain, Retrieval-Augmented Generation (RAG)
- **Web Scrapping & Data** — Selenium, Playwright, BeautifulSoup, Pandas, Web Scrapping
- **Databases & Tools** — PostgreSQL, MySQL, Git, Docker, GitHub, Postman, WooCommerce, HTML, CSS

Experience

AI Python Developer, *Freelancer*

- Engineered scalable web scraping and data extraction systems using Selenium, Playwright, and BeautifulSoup, collecting structured data from 30+ web platforms.
- Built automated data processing workflows to clean, transform, and export structured CSV/JSON datasets for business applications.
- Developed and integrated REST APIs with third-party services, including OpenAI API, to support AI-powered features and backend functionality.
- Built maintainable Python backend and automation solutions focused on reliable data processing, reusable components, and clean architecture
- Developed automated lead-generation workflows, reducing repetitive manual data collection through Python-based automation.

November 2024 – Present
Karachi, Pakistan

Python Developer, *DK Digital Solution*

- Developed Python-based solutions to extract and process product data from 20+ WooCommerce stores, improving data accessibility for business operations.
- Built automated lead generation systems that streamlined data collection and reduced manual effort through backend automation.
- Designed and integrated REST APIs using Django REST Framework, enabling seamless communication between backend services and client applications.
- Contributed to the development of a lightweight Warehouse Management System (WMS) by implementing inventory management features and scalable backend components.

August 2025 – December 2025
Karachi, Pakistan

Projects

Restaurant Management System, *React • Flask • PostgreSQL • REST API*

Developed a full-stack restaurant management system supporting order processing, kitchen operations, inventory, and menu management, with REST APIs connecting responsive interfaces for customers, kitchen staff, and administrators.

April 2026 – June 2026

AI-Powered RAG Chatbot, *Python • FastAPI • RAG • LLM Integration*

Built a Retrieval-Augmented Generation (RAG) chatbot using GitHub documentation, FastAPI REST APIs, LLM integration, and semantic document retrieval to generate context-aware, citation-based responses.

January 2026 – March 2026

Education

Muhammad Ali Jinnah University, BS Software Engineering

February 2024 – Present
Karachi, Pakistan