Shehzad Khalid

AI Engineer

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Summary

Motivated and detail-oriented Python backend developer with strong expertise in **C++**, **OOP**, **Django**, **PostgreSQL**, and **Docker**. Passionate about building **scalable APIs**, **automation tools**, and working on **cloud-based systems**. Experienced in designing clean, modular architectures and integrating AI-powered features into real-world applications.

Skills

Languages: Python, C++, SQL, Bash

Frameworks/Libraries: Django, FastAPI, Flask, OpenCV, Pandas, NumPy

Databases: PostgreSQL, MySQL.

ORM/ODM: Django ORM

Testing: Unittest, Pytest

DevOps & Tools: Docker, Docker Compose, Git, GitHub, VS Code, PyCharm, Postman, Jupyter Notebook

Other: REST APIs, Clean Architecture, OOP, DBMS, DSA, JWT Auth, Linux CLI, CLI scripting, System Design

Experience

Python Backend Developer (Freelance & Personal Projects)   Mar *2022–Present*

- Built robust RESTful APIs using **FastAPI** and **Django REST Framework** (DRF), implementing modular and scalable architecture.
- Created **djstart**, a custom Django CLI tool for automatic project setup with Docker, PostgreSQL, and virtual environments.
- Built an **AI blog generator** that converts YouTube videos into structured blog content using OpenAI APIs and NLP techniques.
- Designed and developed a **full-stack portfolio** with a Django REST backend and Tailwind frontend.
- Contributed to open-source projects, focusing on reusable Django modules, JWT authentication, and PostgreSQL integration.
- Published a **DRF boilerplate** project with clean architecture that has been adopted in multiple backend systems.

Inventory Management System—Unilever   Feb 2025–present

- Developed a robust inventory management backend for **Unilever**, supporting **role-based access**.
- Implemented dynamic workflows for **stock requests**, **approvals**, **issue tracking**, and **reporting**.

- Integrated **real-time tracking** and notifications, enhancing operational efficiency.
- Used **Django**, **PostgreSQL**, and **Docker** to ensure scalability and smooth deployment.
- Applied **JWT authentication**, modular service layers, and clean code practices across the project.

Education

BS Information Technology
University of management & Technology (UMT)

Focus Areas: Backend Development, Systems, Artificial Intelligence Projects

Projects

Inventory Management System

A complete role-based inventory system with real-time tracking and workflow management.

- Users: Admin, Manager, Storekeeper, Technician
- Features: Stock requests, issue logs, reporting, live updates

AI Blog Generator from YouTube

Converts YouTube video links into blog posts using OpenAI's API and NLP.

- Features: Transcript extraction, blog structuring, topic tagging
- Stack: Django, OpenAI API, Celery, PostgreSQL

Gaze-Controlled Virtual Mouse (YOLOv8)

Eye-tracking-based system that lets users control the mouse using gaze direction.

- Used YOLOv8 for facial/eye detection and custom logic for cursor control.
- Ideal for accessibility and hands-free computing.

Achievements

- Designed DRF boilerplate used across multiple projects.
- Automated Django project setup with a single command using custom CLI.
- Integrated advanced authentication and modular services into live systems