

HAIDER ALI

Senior Backend Engineer

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PROFILE

Senior Backend Engineer with 6+ years of hands-on experience building **Python & Django-based backend systems, distributed services, and event-driven architectures**. Strong background in API design, asynchronous processing, and data pipelines, with a focus on reliability, clean architecture, and production readiness. Experienced in building backend platforms that handle sensitive data, approval workflows, and audit trails in regulated environments, with cloud experience across **AWS** and **Azure**.

WORK EXPERIENCE

Senior Software Engineer, 03/2024 – Present
SITE (Saudi Information Technology Company)

- Designed and maintained backend services for a secure government correspondence platform processing **5K+ daily transactions**.
- Built and optimized **Django REST APIs** with strict schema validation, versioning, error handling, and secure authentication.
- Implemented **role-based access control (RBAC)** across multiple authorization tiers, with **SOC 2-aligned audit logging** (user attribution, centralized aggregation via the **ELK stack**, and retention controls).
- Developed **asynchronous workflows using Celery and Redis (queue and caching layer)** for delivery tracking, retries, delay alerts, and background processing.
- Integrated a secure **Document Management System (DMS)** with versioning, encryption, and governed access to structured and unstructured data.
- Applied sound **software architecture and distributed systems principles**, including service boundary definition, idempotent APIs, and failure isolation.
- Supported production operations through rotational on-call duties, troubleshooting incidents within defined SLAs, improving observability, and refining **retry and fault-handling** mechanisms.
- Contributed to code quality and reliability through active code reviews, **SonarQube-based static analysis**, and adherence to team coding standards and CI/CD quality gates.

Software Engineer, *Kavtech Solutions (Private) Ltd.* 05/2021 – 02/2024

- Built backend components for a high-volume sports data platform aggregating data from multiple third-party APIs and web sources.
- Designed and maintained **ETL/ELT** pipelines in Python for data cleaning, validation, transformation, and normalization; supported downstream **Scikit-Learn-based** prediction models for team-winning analysis.
- Implemented **event-driven ingestion workflows** using asynchronous processing to support scalable data pipelines.
- Developed **Scrapy-based** crawlers for structured and unstructured data ingestion, with **Selenium-based** automation to validate data quality and detect inconsistencies early in the pipeline.
- Migrated ingestion and processing jobs to **AWS Lambda and ECS** with monitoring via **CloudWatch**, improving scalability and reducing operational overhead.

Python Developer, *Magnetar Solutions* 07/2020 – 05/2021

- Developed backend systems for land acquisition and property management platforms.
- Implemented **Flask-based APIs** supporting parcel registration, ownership tracking, approval workflows, and compliance checks.
- Built data transformation pipelines using **Pandas** on **MariaDB-backed** property datasets for normalization and reporting.
- Integrated **RabbitMQ** for asynchronous messaging between internal services.
- Hosted backend APIs on **Azure App Service** and scheduled data ingestion and normalization jobs on **Azure Function Apps**.

Junior Software Engineer, Ebiz Ltd.

02/2018 – 06/2020

- Built backend features in **Django** for e-commerce and service-management platforms, including **Shopify integration** with **Stripe/PayPal payment workflows**.
- Developed CRM features using flexible **EAV (Entity-Attribute-Value)** data models.
- Implemented **WebSocket-based** real-time features to support interactive user workflows.

SKILLS

Backend & APIs: Python, Django, Django REST Framework, FastAPI, Flask, REST API Design, API Versioning, Secure API Design, Microservices Development

Async & Distributed Systems: Celery, RabbitMQ, Redis, Event-Driven Architecture, WebSockets

GenAI & LLM Systems: Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Embeddings & Vector Databases (FAISS), Tool & Function Calling, Prompt Engineering, Context Memory Management, Agentic Workflows

Machine Learning: Scikit-Learn, YOLO / Computer Vision, Applied ML (prediction models, pipeline integration)

Data & ETL: PostgreSQL, MariaDB, ORM-Based Data Access, Pandas, NumPy, ETL / ELT Pipelines, Data Validation, Data Transformation

Cloud & DevOps: AWS (EC2, Lambda, ECS, S3, RDS, CloudWatch, Elastic Beanstalk, CDK, CloudFormation), Azure (App Service, Function Apps), Docker, Kubernetes, OpenShift, GitHub Actions, CI/CD, Serverless, ELK Stack, GCP (limited exposure)

Security & Governance: RBAC, OAuth2, JWT, Audit Logging, SOC 2-Aligned Controls

Software Engineering Foundations: Algorithms & Data Structures, Distributed Systems Fundamentals, Fault Tolerance & Retry Strategies, Clean Architecture & Service Design, Code Review, Unit Testing (PyTest), SonarQube, Agile

Other: Apache Airflow, Swagger / OpenAPI, Scrapy, Selenium, Gunicorn, NGINX, PEP8

SELECTED PROJECTS

LLM-Powered E-commerce Assistant

09/2025 – 02/2026

- Built a **Retrieval-Augmented Generation (RAG)** pipeline grounded in product catalogs, FAQs, and operational documentation.
- Implemented **embedding-based vector search using FAISS** to provide contextual knowledge retrieval for LLM responses.
- Integrated tool and function calling to securely trigger backend actions such as order lookup, shipment tracking, inventory checks, product recommendation, and policy validation.
- Implemented conversation state management to maintain context across multi-turn interactions.
- Deployed the service on AWS, integrating OpenRouter for LLM inference and managing secure, auditable AI interactions.

AI CCTV Violation Detection System, DP World

01/2023 – 02/2024

- Designed a modular backend architecture separating web services from AI inference components to optimize infrastructure cost.
- Established **RabbitMQ-based messaging pipelines** and multi-tier caching for AI module communication.
- Integrated YOLO-based computer vision models for PPE and zone intrusion detection, achieving 95%+ accuracy.
- Curated and processed live camera feed data, improving model training and evaluation performance by ~15%.

HomeKnock Real Estate Platform, HomeKnock

02/2022 – 04/2023

- Built backend services and APIs for **multi-role workflows** (Agent, Seller, Customer) with role-based permissions, approval flows, and full listing/offer/transaction lifecycle management.
- Deployed and maintained backend services on **AWS EC2**, with basic monitoring and operational support.
- Configured **GitHub Actions workflows** for CI/CD deployments.

EDUCATION

Bachelor of Science: Computer Science, Government College University (Lahore, Pakistan)