

Zahra Waheed

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Professional Summary

Backend Developer with 2.5+ years of professional experience building and optimizing production-grade SaaS platforms using Python, Django, FastAPI, and microservices architecture. Proven track record in designing multi-tenant systems, integrating payment gateways, and delivering scalable REST APIs. Currently pursuing a BS in Artificial Intelligence with hands-on exposure to Machine Learning, Deep Learning, NLP, and Computer Vision.

Technical Skills

Languages & Frameworks: Python, Django, FastAPI, Django REST Framework (DRF), Pydantic

Databases: PostgreSQL, MySQL, Redis, SQLAlchemy, SQL Optimization, Database Migrations

Architecture: Microservices, REST APIs, Multi-tenant SaaS Design, API Versioning

Async & Messaging: Celery, RabbitMQ, Redis Queue

Security & Auth: JWT Authentication, OAuth2, Data Encryption

Cloud & Storage: AWS S3 (File Storage)

Payments & Integrations: Stripe, SSLCommerz, SendGrid, Twilio

DevOps & Tools: Git, GitHub, GitLab, Postman, Swagger, Pipenv, Virtualenv

Testing: Pytest, Unittest, DRF Test Client, API Testing

ML & AI Libraries: Scikit-learn, TensorFlow, PyTorch

AI/ML Concepts: Machine Learning, Deep Learning, NLP, Computer Vision

Environment: Linux/CLI, Virtual Environments, Environment Configuration

Professional Experience

Backend Developer

2023 – Present (2.5+ Years)

Enigmatix

- Architected and built the Catalog Service and Configuration Service of the Order Management System (OMS) from scratch using Django REST Framework and microservices architecture
- Optimized 5+ backend microservices (catalog, configuration, orders, auth, payment) to improve performance, reliability, and scalability across a multi-tenant SaaS environment
- Integrated SSLCommerz payment gateway into the payment service alongside the existing Stripe integration, enabling dual payment gateway support
- Designed and maintained RESTful APIs with JWT authentication and OAuth2 to secure multi-tenant access control
- Implemented asynchronous task processing using Celery and RabbitMQ to handle background jobs, including transactional email (SendGrid) and SMS notifications (Twilio)
- Managed PostgreSQL and Redis databases, applying SQL optimization techniques to improve query performance
- Maintained codebase quality using Git and GitLab through structured code review workflows; documented APIs using Postman and Swagger

Projects

NexSaaS — OMS & DMS Platform

nexsaas.org

- Built a multi-tenant SaaS platform combining an Order Management System and Delivery Management System, supporting multiple business clients on shared infrastructure with strict per-tenant data isolation
- Engineered a production-grade backend using Django, FastAPI, and DRF with PostgreSQL, Redis, Celery, and RabbitMQ for scalable, asynchronous processing
- Implemented dual payment gateway integration (Stripe and SSLCommerz) and a centralized authentication service for secure cross-service access

- Enabled inter-service microservices communication, improving system modularity and maintainability
- **Tech Stack:** Django, DRF, PostgreSQL, AWS S3, Redis, Celery, RabbitMQ, Stripe, SSLCommerz, SendGrid, Twilio

Education

BS Artificial Intelligence (Continuing)

Expected 2027

The Islamia University of Bahawalpur

CGPA: 3.38

Certifications

- Technical Course Track — [View Certificate](#)