

Abdullah Naeem

Python Backend Developer at Meissasoft

Software Engineer with experience in building scalable backend systems and microservices using Python and FastAPI. Strong foundation in designing RESTful APIs, asynchronous architectures, and implementing secure authentication mechanisms. Proficient with PostgreSQL, Docker, CI/CD pipelines, and cloud-native deployments. Experienced in collaborating with frontend teams to deliver reliable, high-performance web applications. Adept at refactoring legacy systems, solving complex problems, and working effectively within Agile/Scrum environments.

Skills & Strengths

- FastAPI
- Python
- PostgreSQL
- Django
- DRF
- Third Party APIs
- AI / LLMs
- Docker
- Git / GitHub
- Celery
- Redis
- CI / CD

Projects

Urban SDK | Meissasoft, Lahore | July 2024 - June 2025

Links:

- <https://www.urbansdk.com/>

Tools: FastAPI, Flask, Postgresql, github, swagger UI, jwt auth, Docker, Jira, Postman / Swagger, Rabbit MQ, Microservices Architecture, Pydantic

- Worked on a live US-based client project, leading the migration of backend services from **Flask to FastAPI**, improving performance, scalability, and maintainability.
- Designed, developed, and optimized **FastAPI-based RESTful APIs**, ensuring seamless integration with existing services and data structures.
- Contributed to a **microservices architecture**, integrating and enhancing existing services, models, and utilities to ensure modularity and reusability.
- Refactored and reverse-engineered **legacy codebases** to improve efficiency, readability, and long-term maintainability.
- Managed **PostgreSQL database migrations**, merging legacy tables with new schemas while ensuring data integrity.
- Built and maintained **Dockerized environments** for consistent development, testing, and deployment.
- Collaborated closely with **frontend teams** and stakeholders to resolve API integration issues and deliver **client-aligned features**.
- Utilized **Git** for **version control**, managing **multiple branches** and ensuring clean, maintainable codebases.
- Worked within an **Agile/Scrum environment**, using **Jira** for sprint

Contact Info

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Education

Lahore Garrison University
Lahore / BS
Computer Science (2025)

Languages

- Punjabi - Native
- Urdu - Native
- English - Medium

Hobbies

- Watching Cricket
- Table Tennis
- Social Media

planning, task tracking, and contributing to test case design and continuous delivery.

Human RL AI | Meissasoft, Lahore | June 2025 - Dec 2025

Links:

- <https://hrl-ai-dashboard-query-api-staging-74ye3o2uo-a.run.app/docs#/>

Tools: Python, FastAPI, SQLAlchemy, PostgreSQL, OAuth 2.0, JWT, Docker, Google Cloud Services, Artifact Registry, GitHub Actions, Async Programming, CI/CD, Microservices Architecture

Broker Portfolio Microservices (FastAPI):

- Built **production-grade FastAPI microservices** for automated broker portfolio ingestion and retrieval, integrating with the **Alpaca Trading API** and PostgreSQL.
 - Designed an **asynchronous architecture** using FastAPI background tasks to support real-time portfolio tracking and high-concurrency workloads.
 - Implemented **secure authentication and access control**, including **OAuth 2.0 token flows with auto-refresh** and **JWT-based API authorization** via a dedicated auth service.
 - Developed resilient data pipelines with **robust error handling, retry mechanisms, connection pooling**, and **SQLAlchemy ORM**.
 - Designed an optimized **time-series and historical snapshot data model** to support efficient querying and aggregation.
 - Containerized and deployed services using **Docker** on **Google Cloud Run**, leveraging **Cloud Scheduler** for cron jobs and **Artifact Registry** for image management.
 - Implemented **CI/CD pipelines with GitHub Actions** for automated builds, testing, and environment-specific deployments.
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