

Omar Alfarouk Almohamad

backend software engineer · python / django / fastapi

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00 AT A GLANCE

2+ years

professional software
development

200–900ms

webhook to MT5 trade
confirmation, in measured
samples

3 platforms

Numiver: web, iOS and Android,
in production

01 SUMMARY

Backend engineer working mainly with Python, Django, FastAPI and PostgreSQL, with over 2 years of professional experience. At INOSAS I built .NET and PHP applications for Turkish public institutions, and later worked part-time for Global Hash Tech, a US-based company, on Python/Django and .NET projects. As a freelancer I designed and delivered the backend of a multi-tenant MT5 copy-trading platform. I also build and run my own product, Numiver: pipelines for Turkish investment fund data (TEFAS, KAP), an OpenAI-based analysis assistant, and web and mobile apps deployed with Docker.

02 SKILLS

Languages

Python SQL C# PHP JavaScript

Backend

Django DRF FastAPI Celery ASP.NET Core / .NET 8 CodeIgniter

REST API Webhooks Stripe CQRS

Data and queues

PostgreSQL Full-text search TimescaleDB Redis MySQL MSSQL

Kafka (graduation project)

LLM

OpenAI API Tool calling RAG SSE

Infra and testing

Docker Docker Compose Linux (Debian) Git Unit tests

Architecture tests JMeter

Web and mobile

Next.js React Native (Expo)

03 EXPERIENCE

● Software Developer · Global Hash Tech, Inc.

Aug 2025 – Jul 2026

US-based company · Part-time

- Worked on projects built with Python, Django and Celery.
- On DroneHub, a CQRS-based REST API in .NET 8 and C#, wrote unit tests for the Stripe payment module covering payment sessions, balance transfers, payouts and failure cases.
- Added architecture tests that enforce the application's layer boundaries and dependency rules.

● Freelance Backend Developer · MT5 copy-trading platform

Sep 2025 – Mar 2026

Client project

- Designed, built and delivered the backend of a multi-tenant MT5 copy-trading platform with Django, FastAPI, PostgreSQL, Celery and Redis.
- Built the pipeline that receives TradingView webhooks, validates signals asynchronously and places the trade on MT5. In measured samples, the time from webhook receipt to MT5 trade confirmation was **200–900 ms**.
- Moved trade execution out of the main application into Celery workers backed by Redis, so concurrent user jobs run in separate worker processes.
- Added per-user lot size and TP/SL rules, and a layer that maps symbols to each broker's own naming.

- Automated the collection of TradingView backtest data and the updating of strategy metrics. Results show up in a Django dashboard with P&L analysis and risk controls.

● **Software Developer · INOSAS**

Mar 2024 – May 2025

Türkiye

- Built applications for Turkish public institutions with ASP.NET Core, C#, PostgreSQL and MSSQL, including the **MTA** project tracking and reporting platform and the **KOSGEB DPIS** application.
- Developed ProcessMan ERP modules in PHP/CodeIgniter and MySQL, from requirements analysis to production release.
- Built a PWA stock management app integrated with Goo Service Manager (ITIL).
- Worked on JMeter tests, third-party integrations, code reviews and debugging.

● **Numiver · investment fund analytics platform**

own product

Formerly cogni-fund · web, iOS and Android

- Wrote daily pipelines that pull TEFAS, KAP and market data, validate it and repair missing or incorrect records. Scheduled jobs run on Celery and time series live in TimescaleDB.
- Built an OpenAI-based analysis assistant that can only call approved tools with approved parameters. The model never writes SQL: queries are parameterized and run under a read-only PostgreSQL role.
- Implemented RAG on PostgreSQL full-text search. Calculations and tables are computed on the server, and numbers in answers are checked against tool results and corrected automatically when they don't match. Added per-user token and cost limits; responses stream over SSE.
- Wrote an OCR pipeline that extracts fund portfolio allocations from KAP PDF reports. This data drives intraday estimated fund prices and the portfolio overlap, concentration, fee and risk analyses.
- Built the Next.js web app and the React Native/Expo mobile apps, with price alerts over Telegram, push and email. I run the backend and web app in production with Docker Compose on Debian.

Django

Celery

PostgreSQL

TimescaleDB

OpenAI API

OCR

Next.js

React Native

Docker

● **Real-time network intrusion detection system**

graduation project

- Built a streaming pipeline that captures network traffic with Tshark, sends it through Kafka and processes it with PySpark.
- Implemented and evaluated Isolation Forest and LSTM models for detecting anomalous traffic.

Python

Tshark

Apache Kafka

PySpark

B.Sc. in Software Engineering · OSTİM Technical University, Ankara

2024

Machine Learning Specialization · DeepLearning.AI and Stanford Online (Coursera)

2026

Arabic  native

Turkish  C2

English  B2