Adkhamjon Makhmudov

Python Backend Developer

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Summary

Backend developer with 3+ years of hands-on experience building high-load, production-grade systems in Python. Specialize in designing async microservices with FastAPI and Django, integrating third-party services (payment gateways, GDS providers, LLM APIs), and architecting distributed backends. Experienced in leading full project lifecycles — from database schema design and inter-service communication to Docker deployment.

Work experience

SAMYY SOFT — Tashkent
Jan 2024 – Present

Software Engineer

- Core backend developer on a super-app platform (9+ microservices) — designing and building services from scratch with FastAPI and Django
- Built fully async services handling 500+ RPS with sub-second latency using asyncpg, httpx, and Redis caching
- Developed inter-service communication layer using RabbitMQ and gRPC, ensuring reliable messaging across the platform
- Built the airline booking service: multiple GDS providers integrated via XML and REST into a unified async API (search, booking, ticketing, void)
- Containerized all services with Docker Compose; managed PostgreSQL migrations with Alembic

ATS-LLC / FZCO — New York, NY (Remote)
Mar 2024 – Dec 2024

Python Backend Developer

- Led backend development for core products using FastAPI and Django, delivering REST APIs with PostgreSQL and async task processing
- Built reporting and analytics modules that enabled data-driven decision-making for management team
- Optimized database queries, caching strategies (Redis), and background job processing — improved response times by 40-50%
- Implemented CI/CD pipelines and deployment workflows for production services

UITC United IT Club
May 2023 – Dec 2023

Python/Django Instructor & Project Mentor

- Taught 8 months of Python, Django, and web development — guided students through building full-stack web apps
- Designed hands-on CRM and automation projects; mentored on Git workflows and deployment practices

Key projects

ISMI — AI SMM Agent

AI agent platform, details under NDA

- Backend for an AI agent platform for social media marketing, built around multi-provider LLM pipelines with structured outputs
- Durable background workflows and third-party API integrations, covered by 500+ automated tests

`FastAPI / Pydantic AI / LLM APIs / PostgreSQL / SQLAlchemy / Alembic`

OqYol — Super App Platform

Microservices architecture, 9+ services

- Large-scale super-app with 9+ microservices: airline booking, payments, user management, notifications, analytics
- Built airline booking service integrating multiple GDS providers via XML and REST into a unified async API

`FastAPI / SQLAlchemy / PostgreSQL / Redis / RabbitMQ / gRPC / Docker / Alembic`

Masterium API

Service marketplace platform

- Service marketplace with PostGIS geolocation search, Google OAuth + OTP auth, job offers, reviews/ratings

`FastAPI / PostgreSQL / PostGIS / Redis / Traefik / Docker`

Crystal Cleaning CRM

Production system, multi-tenant

- CRM for a cleaning business, running in production: multi-tenant accounts, orders, price catalog, 80+ API endpoints, Excel reports, PDF receipts with QR codes, Telegram bot

`FastAPI / SQLAlchemy / PostgreSQL / aiogram 3 / WeasyPrint / Docker`

Technical skills

Languages & frameworks	Python, FastAPI, Django, DRF, SQLAlchemy, Pydantic, Celery
Databases & caching	PostgreSQL, Redis, Alembic, asyncpg, PostGIS
Infrastructure & DevOps	Docker, Docker Compose, Nginx, Traefik, Linux, CI/CD
Integrations & protocols	REST API, XML/SOAP, LLM APIs, Telegram Bot API, Payment Systems (Payme, Click, Uzum)
Testing & quality	Pytest, Unit Testing, Integration Testing, Code Review
Tools & practices	Git, GitHub, GitLab, httpx, async/await
Learning & using in practice	RabbitMQ, gRPC, Kubernetes, Kafka, AWS, Azure

Languages

Uzbek — Native **Russian** — B2 **English** — A2