

# UMIDJON UMMATALIYEV

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## PROFESSIONAL SUMMARY

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Backend engineer with **3+ years** building production systems at scale. Reduced data transmission latency by **80%**, scaled platforms to **20K+ users**, and architected payment systems processing **thousands of transactions daily**. Core stack: **Python, FastAPI, PostgreSQL, Docker**. Focused on writing performant, maintainable code and designing systems that handle real traffic reliably.

## TECHNICAL SKILLS

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<b>Languages</b>	Python, Go
<b>Frameworks</b>	FastAPI, Django, Django REST Framework, GraphQL, SQLAlchemy
<b>Databases</b>	PostgreSQL, MySQL, MongoDB, Redis
<b>DevOps</b>	Docker, Git, CI/CD (GitHub Actions), Nginx, Kong, Grafana
<b>Cloud &amp; Payments</b>	AWS S3, DigitalOcean, Stripe, Payme, Click, Uzum, Paynet
<b>Async &amp; Messaging</b>	Celery, RabbitMQ, Apache Kafka
<b>Other</b>	WebSockets, UDP/TCP, REST APIs, BeautifulSoup, Selenium, Telegram Bots
<b>Spoken Languages</b>	Uzbek (Native), English (B2), Russian (B1)

## EXPERIENCE

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**Backend Engineer** Apr 2026 – Present  
Safia Tashkent, Uzbekistan

- Contributing to backend development with **Python** and **FastAPI**, building scalable services and APIs.

**Backend Engineer** Aug 2024 – Apr 2026  
DevSymfony Remote, Tashkent

- Architected and built a **production-grade ERP system** for residential complex management using **microservice architecture with FastAPI** — designed **12+ interconnected services** with **RBAC, JWT auth**, automated billing engine with **10-day grace periods** and parking auto-blocking, integrated **payment gateways** with webhook-driven flows, optimized **PostgreSQL** hierarchical schemas reducing query latency by **40%**, and containerized with **Docker** — serving **20K+ residents** across multiple housing complexes.
- Rebuilt a real-time vehicle tracking system for **100+ fleet vehicles** by migrating from HTTP to **UDP protocol** — reducing data transmission latency from 500ms to **100ms (80% improvement)** and increasing throughput by **10x** using **Python asyncio** with binary data processing, CRC32 validation, and OTA firmware updates.
- Built a concurrent flight booking system with **FastAPI and SQLAlchemy** handling **1,000+ daily reservations** with **zero double-bookings** using **PostgreSQL** advisory locks and **Redis** distributed locking across multiple airline APIs. Integrated **Celery** workers for async operations and **MongoDB** for user analytics.
- Scaled an educational platform to **20K+ active users** with **Stripe** recurring billing, achieving a **99.5% payment success rate**. Implemented **JWT** auth with SMS OTP and role-based access control using **Django REST Framework** and **PostgreSQL**.
- Developed an event ticketing platform supporting **3K+ concurrent users** during peak launches using **FastAPI**. Integrated **Firebase Cloud Messaging** for push notifications and **Redis** caching, reducing database load by **60%**.
- Deployed microservices using **Docker** with **GitHub Actions** CI/CD pipelines — reducing deployment time from 20min to **7min** with zero-downtime rolling deployments.

**Backend Engineer** Oct 2023 – Sep 2024  
Felix IT Solutions Tashkent, Uzbekistan

- Built a **warehouse and sales management system** with real-time inventory tracking, automated order fulfillment, and multi-warehouse stock allocation. Implemented RBAC, supplier/customer workflows, and an analytics dashboard for SME clients.
- Optimized PostgreSQL queries by adding composite indexes and rewriting N+1 queries — reducing inventory dashboard load time from 3s to **800ms** for operators managing **1,000+ SKUs**.
- Configured **Celery** distributed task queue with **Redis** broker for background processing of email notifications, scheduled reports, and batch imports without impacting API response times.
- Developed an educational platform serving **200+ schools** and **5K+ teachers** nationwide. Built a CMS for digital lesson plans, schedule management, and file uploads with payment gateway integration and role-based permissions.
- Created web scraping pipelines using **BeautifulSoup** and **Selenium** to collect structured data from public websites. Handled pagination, JavaScript rendering, and anti-bot mechanisms for business analytics.
- Automated classified ad posting by reverse-engineering platform APIs with rate limiting and scheduling — reducing manual posting effort by **70%**.

## Backend Engineer

Sciotech Solutions

May 2023 – Oct 2023

*Tashkent, Uzbekistan*

- Implemented Docker-based **CI/CD pipeline** with GitHub Actions for automated testing and deployment — reducing deployment time from 45min to **15min** and eliminating manual errors across microservices.
- Containerized Django applications with multi-stage Dockerfiles, optimizing image sizes from 1.2GB to **400MB**. Created docker-compose configs for local development and deployed to production using Docker Swarm.
- Built web scrapers with retry logic, rate limiting, and proxy rotation — processing **100K+ records daily** for business analytics.
- Developed a real-time **WebSocket server** using Django Channels with Redis, supporting **500+ concurrent connections** for live dashboard updates with automatic reconnection handling.
- Designed RESTful APIs with **Django REST Framework**, implementing token authentication, pagination, filtering, and error handling following OpenAPI specifications.

## EDUCATION

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Master's Degree, Tashkent State Technical University

2023 – 2024

Bachelor's Degree, Tashkent State Technical University

2019 – 2023

## CERTIFICATIONS

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- Database (PostgreSQL) — Najot Ta'lim
- Python Backend & Django — PDP IT Academy
- Frontend & Django REST Framework — Udemy
- Python Full-Stack & Telegram Bot Development — Mohirdev