

# Grigorii Fedorov

## Python backend developer

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### PROFILE

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Senior Python Developer with **5+ years** of commercial experience, working in **large cross-functional teams** using the Scrum methodology, as well as in a **sole developer role**. Passionate about building reliable, scalable systems. Familiar with the **full development cycle**, from gathering product owner requirements to releasing the product. Co-founded an AI-based adaptive learning startup, later acquired by Constructor Group

### SKILLS

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**Python:** FastAPI | SQLAlchemy | Asyncio | Websocket | Celery | PyTest | Pydantic | Poetry | MyPy | Ruff | Structlog

**Infrastructure:** Docker | Gitlab CI | Digital Ocean | Grafana | Prometheus | Caddy | Sentry | Git | Linux | Bash

**Databases & Messaging:** PostgreSQL | Redis | Apache Kafka | MongoDB | RabbitMQ | ClickHouse

### PROFESSIONAL EXPERIENCE

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#### Senior Backend Developer

03/2022 – present

Constructor Group 

3 years

- **Designed and implemented the architecture**, database model, REST API, and background task processing of an online exam system with **2000+ concurrent users**.
- Added an assessment system for **8 question types**, including automated and manual faculty grading support that **reduced exam grading effort by 70%**.
- Established two-way integration between exam system and LMS via LTI protocol and Kafka, enabling secure proctoring and reducing academic misconduct.
- Set up code quality system with linters, type checking and tests achieving **94% coverage**, configured CI/CD pipelines with DevOps team.
- Implemented AI to review questions with LLM and ML integration, **freeing up to 13 hours per week for instructors** to spend on grading and lesson planning.
- **Mentored** one Junior developer, setting goals and helping him grow to Middle.

#### Python Backend Developer

07/2020 – 03/2022

Aezakmi 

1.9 years

- Built high-load VPN service processing **11000+ daily users**, developed admin dashboard for server monitoring and configuration.
- Created app promotion platform with fraud detection and automated payment system, handling thousands of secure payouts monthly.
- Migrated infrastructure to DigitalOcean reducing costs by **35%**, optimized database performance **improving response time by 4x**.

#### Python Developer | Data Analyst

06/2019 – 07/2020

Sber 

1.2 years

- **Built an e2e solution of 3 microservices** (job recommendations, training plans, and employee potential assessment) that handled model training and deployment.
- Created HR analytics module and Telegram Bot that eliminated manual report requests, reducing delivery time from 2-3 working days to **15 minutes**.

### EDUCATION

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#### Bachelor's Degree

2017 – 2021

BMSTU

Computer science and control systems