

# ALEKSEI KOGAN

Senior Backend Developer (Python, Django, FastAPI)

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## ABOUT

- 7+ years of experience as a Backend Developer specializing in Python (Django, FastAPI).
- Expertise in database optimization (PostgreSQL, MySQL), asynchronous processing (Celery, Redis), and containerization (Docker).
- Experience in full-cycle development, from architecture design to CI/CD and testing.
- Frontend development with JavaScript and React, integrating UIs with backend APIs
- Integrated OpenAI APIs to build intelligent assistants and automate backend workflows.

## SKILLS

Core Stack:: Python, Django, DRF, FastAPI, JavaScript, React, MySQL, PostgreSQL, Redis, Celery, RabbitMQ, Docker, nginx, pytest

Familiar With: Grafana, Prometheus, gRPC, OpenAI API, AWS, SOAP, GraphQL, GitHub, GitLab, Kafka, Jira, Stripe, unittest, coverage, Swagger, reDoc

## EXPERIENCE

KOKOC GROUP - Leading Russian digital marketing agency with 1000+ employees

Senior Backend Developer | Nov 2024 – Present

- Refactored critical MySQL queries by optimizing Django ORM calls and adding indexes, reducing response times for key API endpoints from ~5s to under 1s.
- Led the migration of user-generated file storage from on-premise servers to AWS S3, which unblocked server performance bottlenecks and enabled horizontal scaling.
- Built and documented a new suite of REST APIs to integrate with three key business partners, automating a previously manual data-sharing process.
- Implemented a background processing system using Celery and Redis to handle long-running tasks like report generation, preventing API timeouts and improving user experience.
- Established a testing framework with pytest, achieving 80% test coverage for new services and creating a culture of writing tests within the team

Technologies: Python, Django, FastAPI, React, JavaScript, MySQL, Celery, Redis, SOAP, S3, Docker

KURCHATOV INSTITUTE - Major national research center focused on nuclear energy and physics

Backend Developer | Aug 2021 - Nov 2024 (3+ years)

- Architected and delivered a new internal portal for submitting research requests, replacing a legacy email-based system for over 200 scientists
- Identified and resolved performance bottlenecks in the main application by optimizing PostgreSQL queries and refactoring legacy Django views, which cut server CPU usage during peak hours.
- Automated the institute's event notification system using Celery, sending customized reminders to participants and eliminating hours of weekly manual work for administrators.
- Implemented a caching layer with Redis for the public-facing API, significantly improving response times for frequently accessed datasets and reducing database load

Technologies: Python, Django, PostgreSQL, Celery, pytest, Docker

BAUMAN MOSCOW STATE TECHNICAL UNIVERSITY - Top-ranked Russian technical university

Backend Developer | Sep 2019 - Aug 2021 (3+ years)

- Developed backend modules for internal university web applications, including user authentication, data processing, and form handling using Django.
- Built REST API endpoints for an internal research tool, which automated data submission and retrieval for the department.
- Wrote Python scripts to automate the generation of weekly data reports, saving the team several hours of manual work each week.
- Contributed to system maintenance by debugging and fixing issues in existing Django applications, focusing on database queries and form validation.

Technologies: Python, Django, DRF, PostgreSQL, Git, REST APIs, Linux (basic), Docker (basic)

## EDUCATION

Bauman Moscow State Technical University, Moscow

- Master of Science, Material Science and Computational Informatics | 2019 – 2021
- Bachelor of Science, Material Science and Computational Informatics | 2015 - 2019

## LANGUAGES

- Russian (Native)
- English (Professional Working Proficiency - B2)