# Dmitriy Lunev

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## About

Python backend developer with 4+ years of commercial experience, working in different spheres like B2B, healthcare, veterinary, HR and others. Have 2 years of leading experience. Worked in teams ranging from 4 to 30 members, both remotely and on-side. Participated in all stages of full cycle of development: from gathering product owner requirements to establishing full automated release process (CI/CD).

In addition to the core activities of the backend developer, I am also involved in mentoring and enhancing the competencies of other developers. We can say that this is my hobby.

## Experience

### Compel
**Backend Developer | 08/2024 - Present**

**Project:** B2B Microservices

- Increased test coverage from 27% to 95% across all microservices, significantly improving reliability and error detection
- Optimized electronic component import, reducing service downtime from 6 hours to 20 minutes, accelerating database updates by 18x
- Accelerated electronic component search, reducing average server response time from 1.2 seconds to 112 ms (10x improvement), enhancing request processing speed
- Designed microservices architecture and APIs with a focus on reusability, reducing code duplication and simplifying scalability
- Optimized testing and system analysis processes, improving release quality and reducing debugging costs
- Integrated Kafka with FastStream, eliminating client blocking during PCB ordering and ensuring seamless request processing
- Contributed to microservices architecture design, defining requirements for new services and decomposing monolithic solutions into independent modules

**Stack:** Python, Pydantic, SQLAlchemy, PostgreSQL, FastAPI, MinIO, PyTest, Kafka, Kibana, Sentry, KeyCloak, Behave, FastStream, Grafana.

**Project:** 360 performance review service

- Optimized employee rating aggregation, reducing average server response time from 5 seconds to 800 ms, accelerating report generation by 6x
- Implemented pagination in the department employee report, enhancing usability and reducing server load during data retrieval
- Refactored the service to align with unified standards across all services, simplifying maintenance and scalability

**Stack:** Python, Aiohttp, pypika, PostgreSQL, minio, keycloak, pytest.

### Fortech
**Head of Python Department | 06/2022 - 08/2024**

**Responsibilities:**

- Mentorship & Coaching: Trained new employees, supported their onboarding, assisted with technical challenges, and helped them master the tech stack.
- Candidate Evaluation: Conducted technical interviews, screenings, and assessments for Python developers
- Hiring Process Optimization: Contributed to the development and refinement of the candidate evaluation system to improve hiring efficiency

**Project:** Fitness Application

- Integrated product APIs to automate nutritional value calculation based on ingredient composition
- Developed a flexible calorie tracking system with multiple measurement units (grams, milliliters, portions, etc.)
- Implemented a nutrition and macronutrient tracking journal, enabling users to monitor their nutrient balance
- Built a media service (Django + MinIO) for handling images and videos, allowing users to upload meal photos and workout recordings.
- Added an article and sports activity section with video lessons, improving user engagement

**Stack:** Django, Postgresql, Redis, RabbitMQ, GitHub actions, MinIO

**Project:** Desktop Application for Automatic License Plate Recognition and Vehicle Weight Auditing

- Designed the application architecture and interface to enhance usability.
- Implemented license plate recognition from images and videos using Tesseract OCR, improving identification accuracy.
- Configured a Windows application installer using PyInstaller, simplifying deployment for clients.
- Developed a dynamic settings system via an ini-file, allowing flexible parameter adjustments without recompilation.
- Integrated API for weight scales, automating vehicle weight control and improving data accuracy.

**Stack:** Python, OpenCV, PyQt6, SQLAlchemy, PyInstaller, SQLite, Docker, GitHub, Trello

### Lukoil
**Backend developer | 11/2021 - 06/2022**

**Project:** HR electronic document management service

- Implemented document generation using DOCX templates, reducing manual workload for HR specialists
- Developed a role-based access control (RBAC) system, ensuring flexible document access management and enhanced security
- Added support for electronic document signing (simple and enhanced digital signatures), accelerating document processing
- Integrated the service with a notification system via Kafka.
- Optimized database performance, eliminating locks and high-load incidents
- Designed and implemented a microservices migration plan, improving fault tolerance and scalability

**Stack:** Python, Pydantic, SQLAlchemy, PostgreSQL, Redis, FastAPI, MinIO, Portainer, PyTest, Kafka

**Project:** Online recruitment service

- Developed a flexible finite-state machine for candidate status transitions, enabling process customization to meet business needs
- Integrated the service with passport verification and document parsing systems
- Implemented seamless integration with the HR document management system, automating document creation and signing upon hiring
- Connected the service to the notification system via Kafka
- Added a dynamic field and block system, allowing flexible form customization without code modifications
- Introduced email and phone verification for candidates, increasing data reliability and reducing fraud risks

**Stack:** Python, Pydantic, SQLAlchemy, PostgreSQL, Redis, FastAPI, MinIO, Portainer, PyTest, Kafka

**Mobicult**
Backend developer | 06/2020 - 11/2021

**Project:** Mobile application for pet owners

- Integrated veterinary clinic APIs (VetManagerAPI), enabling automatic access to medical records
- Implemented integration with the CloudPayments payment system for primary appointment payments and donations to shelters
- Collaborated with the client to formalize business requirements
- Developed a reminder system, allowing users to schedule pet care automatically
- Built a clinic moderation system, accelerating verification and publication processes
- Created an onboarding customization system via the admin panel, increasing new user conversion rates
- Implemented phone number verification for user authentication
- Developed event and map point search functionality on the map (PostGIS, GeoAlchemy2), providing convenient navigation for pet owners

**Stack:** Python, Pydantic, SQLAlchemy, PostgreSQL, FastAPI, PyTest, CloudPayments, PostGIS, GeoAlchemy2

**Project:** admin panel for sending requests for pallet shipment

- Refactored external service API interaction, migrating from XML to JSON
- Added a request queue to prevent processing bottlenecks
- Implemented an event log for the admin panel, ensuring full user action auditability and improving system transparency
- Provided ongoing support and feature enhancements, improving service stability

**Stack:** Python, sanic, aiohttp (client), PyTest, PostgreSQL

**Project:** Application for a Private Medical Clinic Franchise

- Optimized the data synchronization algorithm, reducing record update time
- Added API data caching, lowering server load and speeding up data retrieval for users
- Provided ongoing support and feature enhancements, improving service stability

**Stack:** Python, aiohttp (client + server), PyTest, PostgreSQL, Celery

## Skills

Python, Django, DRF, FastAPI, Flask, SQLAlchemy, OpenCV, PostgreSQL, Redis, RabbitMQ, Kafka, Git, Docker, Nginx, Kubernetes, AWS, MinIO

## Education

The Platov South Russian State Polytechnic University (NPI)
Computer software | 05/2022

## Languages

English, Russian