# Ilya Grigorev

Python developer / backend, data, ML

OPEN TO INTERNSHIPS AND JUNIOR ROLES · MOSCOW · ALONGSIDE MY STUDIES


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LCT 2026 REPO HEALTH SOURCECRAFT CASE

## 23,369

SourceCraft repositories scored by Repo Health — the service our team built at the Leaders of Digital Transformation hackathon and shipped to production.

**3rd place**
Inter RAO, Draftsman, built solo

**3 wins**
Sirius AI × Medsi, Sirius Summer, Big Challenges

**10**
hackathons and contests

LIVE STAND

REPOHEALTH.RU

## ABOUT 01

I build Python services you can open with a link: backend, data work, ML and deployment to my own server.

Since 2020 I have studied at specialized schools — Yandex Lyceum, the MIPT Correspondence School, the MSU Specialized Science Center. I test my skills at hackathons, where there is a deadline and a real client.

## STACK 02

| | |
|---|---|
| BACKEND | Python, FastAPI, Django, asyncio, aiogram, REST |
| DATA | PostgreSQL, SQLite, pandas, NumPy |
| ML | scikit-learn, graph clustering, NLP, OCR, LLM: APIs, Ollama |
| INFRA | Docker Compose, Linux, VPS, Caddy, Git |
| FRONTEND | JavaScript, TypeScript, React, D3, Node.js |
| TESTING | pytest, unit tests |

## LANGUAGES 03

| RU | EN | DE |
|---|---|---|
| native | C1 | A2–B1 |

## EXPERIENCE 04

### Twin · ML Intern
TWIN24.AI · 2025

Voice bots and AI assistants for business

- Tuned LLMs for product tasks: compared models on quality and speed, picked prompts and inference parameters
- Researched new models and wrote up findings for the team

## PROJECTS 05

### 01 Repo Health
REPOHEALTH.RU · LCT 2026

Health scoring for open SourceCraft repositories: a 0–100 Score across six categories, explained down to each metric, recommendations with their effect on the score

- Scored the whole catalog — 23,369 repositories; scheduled rescoring through a queue of horizontally scaled workers
- Sign-in with Yandex ID, analysis of private repositories, PDF and Markdown reports, Russian and English interface
- In production on my own VPS: 8 Docker Compose containers, Caddy, HTTPS

PYTHON · FASTAPI · POSTGRESQL · REACT · DOCKER

### 02 Draftsman · 3rd place
BPMN.Z1NEX.RU · INTER RAO 2026

An AI assistant, built solo: turns a process description into a BPMN 2.0 diagram and a regulation in the client's format

- The model drafts a plan and writes code against the DIAGRAM interface, the code runs in a sandbox, graph algorithms complete the structure
- F1 0.96 on process steps against the reference, 100% of diagrams pass the BPMN 2.0 XSD, 72 s per process
- A regulation with RACI and step cards in Word, a bpmn-js editor, EPC notation; aliceai-llm in Yandex AI Studio

PYTHON · LLM · BPMN-JS · YANDEX AI STUDIO · DOCKER

# Hackathons and contests

Ten hackathons and contests in four years: from school project camps to cases from large companies. Plus prizes at regional olympiads in math, physics and informatics.

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|---|---|---|---|
| 2026 | **AI Assistants for Energy**<br>Inter RAO, Codenrock | Draftsman: a regulation and a BPMN diagram from text, built solo | 3RD PLACE |
| 2026 | **O! Hackathon**<br>Ostrovok, hotels track | An agent system: hotel features from open geodata, built solo | PARTICIPANT |
| 2026 | **SberIndex contest**<br>Clustering track | Atlas of Local Economies: seven types for 2,016 municipalities | PARTICIPANT |
| 2026 | **Leaders of Digital Transformation**<br>SourceCraft case, Yandex Cloud | Repo Health: ranking of the whole catalog, live stand, API, reports | IN PROD |
| 2026 | **Moscow Transport Hackathon**<br>prize pool 4M RUB | A team solution for Moscow city transport | PARTICIPANT |
| 2026 | **Alfa Future**<br>Alfa-Bank | Alfa-Bank's program for student developers | PARTICIPANT |
| 2024 | **Big Challenges**<br>“Bez Pokryshek 71” project | Media platform for a tire recycling project | WINNER |
| 2024 | **Sirius AI × T-Bank**<br>spring program | A tool for analyzing customer reviews | DEFENDED |
| 2024 | **Sirius Summer**<br>project camp | A team project at the Sirius summer camp | WINNER |
| 2023 | **Sirius AI × Medsi**<br>AI in healthcare | A predictive service on a large medical dataset | WINNER |

## MORE PROJECTS

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**03 Control center** — SELF-HOSTED · 2026
A task queue for LLM agents on a Mac and a VPS, subscription limits with a forecast; dependency-free Node.js

**04 Card Index** — COURT.Z1NEX.RU
Court documents into a register: OCR and LLM, 99.1% of fields on a held-out set

**05 Atlas of Local Economies** — Z1NEX.RU/ATLAS
A typology of 2,016 municipalities by spending structure: graph clustering, a D3 map

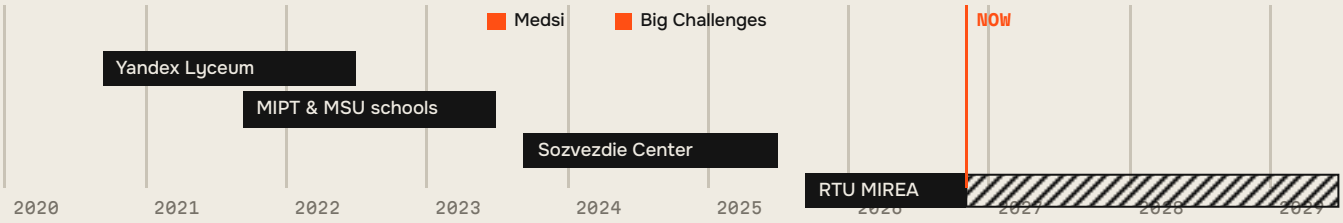
**06 Bank review analysis** — T-BANK · 2024
Collected reviews from banki.ru and sravni.ru, extracted complaint topics with a local LLM and clustering

**07 Taxi fleet app** — CLIENT · 2026
Android and Node.js with its own OSRM: the driver’s earnings per order over their app, 80+ releases

**08 Browser games** — TYPESCRIPT · PHASER
My own engine with drivers for game platforms, automated QA and promo capture

## EDUCATION

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## Drop me a line — I'll show the projects live.

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