

PERSONAL INFORMATION

Moscow, Russia
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ABOUT ME

I am a student and aspiring developer. I have been programming for 4 years, during this time I have contributed to 44 repositories, made 921 commits, and written 176,729 lines of code. I [teach](#) Python, having trained over 30 students. Co-founder and developer at [Ballkit](#). Previously a professional [volleyball player](#).

EDUCATION

[Central University](#) — Mathematics and Computer Science, 2028 (*1st year*). Major: “Development”. Track: “Computer Science Research”.

SKILLS

Python: `FastAPI`, `pydantic`, `Flask`, `SQLAlchemy`, `faststream`, `alembic`, `pytest`.
Databases: `postgres`, `sqlite`, `redis`, `Yandex Object Storage`.
Message brokers: `RabbitMQ`, `Mosquitto`.
Other technologies: `SQL`, `Java`, `JavaScript`, `bash`.
Dev tools: `Docker`, `Podman`, `Make`, `CI/CD`, `Linux`, `Git`

ACHIEVEMENTS

Reached the **final (1)** of the Russian Championship in sports programming, among 5000 participants. Developed a [microservice architecture](#) of 9 services for the [web application](#) aggregating sports events across Russia. And developed an [algorithm](#) for processing and validating annual government reports on sporting events. Tech stack: `Kafka`, `React`, `RabbitMQ (FastStream)`, `FastAPI`, `OAuth`.

Winner of the “Science for Life” scientific-practical conference among 117 projects with a smart home system project for private and public educational institutions. Tech stack: `Redis`, `Zigbee2MQTT`, `websockets`, `Go`, `Python`, `Flask`, `React`.

Third Prize winner, MPGU Informatics Olympiad: “Applied Informatics”

CERTIFICATES

Yandex Lyceum. Entered the 2nd year of the [Yandex Academy Lyceum](#) in “Industrial Development” as an external student. Solved 236 problems, implemented and defended 3 projects, final scored 100/100. Graduated with a [diploma with honors](#).

PERSONAL PROJECTS

SmartCab [Smart home system for schools](#) September 2023 — May 2024

Developed design [prototypes](#). Implemented them (1, 2) in `React`. [Wrote a bot](#) for system administration. [Implemented](#) interaction with 5 smart devices via the Zigbee protocol through Mosquitto broker, and 3 scenarios in the classroom. Tech: `Python`, `Go`, `JavaScript`, `bash`, `Flask`, `sqlite`, `redis`, `postgres`, `JsSip`.

Starship [Text-based action game on Telegram](#) March 2023 — April 2023

Developed mechanics for [online duels](#) with real players in a Telegram bot. Also created a flexible [message rendering engine](#) using jinja2 templates to handle numerous scenario and environment texts. Tech: `Python`, `Flask`, `alembic`, `python-telegram-bot`, `SQLAlchemy`, `jinja2`.

Corpse [Game engine](#) November 2022 — January 2023

As part of a team, developed a fully functional modular game engine based on the [ECS architecture](#). Also created a survival top-down shooter game set in a zombie apocalypse. Tech: `Python`, `Pygame`, `esper`, `pytmx`, `aseprite`, `Tiled`.

CUSTOM DEVELOPMENT

Telegram Bots *All source code publication approved*

Summer 2024

- Developed a [bot](#) for administering and selling WireGuard keys by subscription. [Implemented](#) clear [analytics](#) for clients directly in the bot. Tech: `Python`, `sqlite`, `python-telegram-bot`.
- [Bot](#) for aggregating relevant messages from chats, channels, and groups by keywords. Tech: `Python`, `theleton`, `redis`.

Other Projects *All source code publication approved*

Summer 2024

- [Parser](#) for the Portuguese embassy with authorization [\(1\)](#), captcha solving [\(2\)](#), and branching form traversal [\(3\)](#). Created a [Docker image](#) for containerized parsing with `selenium` under Chromium. Configured [pre-commit](#) hooks for `ruff` linter and `pyright` static analyzer. Tech: `Python`, `selenium`, `psycpg`, `SQLAlchemy`, `FastAPI`.
- [CLI tool](#) for secure operations on Outline servers for thousands of clients. Tech: `Python`.

INTERESTS

Formal Verification: I am taking the [Software Foundations](#) course. I have read the first volume and [proved](#) 250 theorems in `Coq`.

Linux: I use Arch with the Hyprland compositor. I have published my [.dotfiles](#). I wrote my Neovim [config](#) and a color [theme](#) from scratch. I have written over 20 custom [scripts](#).

→ more projects on [GitHub](#)