Anton Grishin — Python Developer

Personal Information

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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`, `psycopg`, `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