Personal Information Moscow, Russia

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ABOUT ME

I am a student and an aspiring developer. I have been programming for 4 years, during which I contributed to 44 repositories, made 921 commits, and wrote 176,729 lines of code. Former professional volleyball player. I am also a Python instructor, having taught over 30 students. Co-founder and developer at Ballkit.

Skills

 $\mathbf{Python:} \ \ \mathsf{FastAPI} \ , \ \ \mathsf{pydantic} \ , \ \ \mathsf{Flask} \ , \ \ \mathsf{SQLAlchemy} \ , \ \ \mathsf{faststream} \ , \ \ \mathsf{alembic} \ , \ \ \mathsf{pytest} \ .$

Go: http, grpc, protobuf, tgbotapi, reflect, gofsm.

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

EDUCATION

Central University — Mathematics and Computer Science, 2028

CERTIFICATIONS

Yandex Lyceum. Admitted externally to the 2nd year of the Yandex Academy Lyceum in "Industrial Development." Solved 236 problems, implemented and defended 3 projects, scored 100/100 on the final. Graduated with honors.

September 2022 — April 2023

Python Course. Completed the Stepik course on Python , solving 71 exercises and finishing with distinction. September $2021 - April\ 2022$

Achievements

Finalist of the **Russian Championship** in competitive programming (among 5000 participants). Developed a microservice architecture of 9 services for a web application aggregating sports events across Russia. Also created an algorithm for processing and validating annual state reports on sports events. Tech stack: Kafka, React, RabbitMQ (FastStream), FastAPI, OAuth. December 2024.

Winner of the "Science for Life" scientific-practical conference among 117 projects with a smart home project for private and public educational institutions. Tech stack: Redis, Zigbee2MQTT,

websockets , Go , Python , Flask , React .

April 2024

Participant in the **Nuclear IT Hack** hackathon, where our team worked for 48 hours on a Rosatom case: a service for detecting emotional tone in online meetings.

April 2024

3rd Prize in the MPGU Olympiad in Informatics: "Applied Informatics".

June 2023

Interests

Formal Verification: Currently taking the Software Foundations course. Completed the first volume and proved 250 theorems in Coq.

Linux: Using Arch with the Hyprland compositor. Published my .dotfiles. Wrote my Neovim config from scratch and a color theme. Authored 598 lines of custom scripts.

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Startup Experience

Patch Loyalty Loyalty program for SMBs

July 2024 — August 2024

Developed a Single Message Bot in Telegram using Go for the boxed loyalty solution ballkit.ru.

Technologies: Go , tgbotapi , grpc , gofsm .

Personal Projects

SmartCab School smart home system

September 2023 - May 2024

Designed admin panel and tablet interface prototypes and implemented them in React . Developed a bot for system administration and implemented interaction with five smart devices over Zigbee via Mosquitto broker and three classroom scenarios. Technologies: Python , Go , JavaScript , bash , Flask , sqlite , redis , postgres , JsSip .

Starship Text-based action game in Telegram

March 2023 — April 2023

Developed real-time duel mechanics for players in a Telegram bot and a flexible message rendering engine using jinja2 templates for complex narrative texts. Technologies: Python , Flask , alembic , python-telegram-bot , SQLAlchemy , jinja2 .

Corpse Game engine

November 2022 — January 2023

Collaborated on a modular ECS-based game engine and built a survival top-down shooter about a zombie apocalypse. Technologies: Python , Pygame , esper , pytmx , aseprite , Tiled .

SchoolRing School bell scheduling release v0.0.2

October 2022 — November 2022

Developed a desktop application in PyQt6 . Configured pre-commit hooks to auto-convert .ui files to .py and CI actions for cross-platform releases. Recently migrated the project to uv for dependency management. Technologies: Python , PyQt6 , threading , schedule .

Contract Development

Telegram Bots Publication of all sources approved

Summer 2024

- Developed a bot for administering and selling WireGuard keys via subscription. Implemented inline analytics reports directly in the bot. Technologies: Python, sqlite, python-telegram-bot.
- Bot for aggregating relevant messages from chats, channels, and groups by keywords. Technologies: Python, theleton, redis

Other Projects Publication of all sources approved

Summer 2024

- Parser for the Portuguese embassy website with authentication auth.py, captcha solving captcha.py, and branching form traversal snif.py. Created a Docker image for containerized parsing using Selenium on Chromium. Configured pre-commit hooks for Ruff linter and Pyright static analysis.
 Technologies: Python, selenium, psycopg, SQLAlchemy, FastAPI.
- CLI tool for secure operations on Outline servers across thousands of clients. Technologies: Python .

Lab Works

BookSwap Book exchange service

May 2024

Designed the database schema definition. Implemented the backend with core business logic in Spring and the authentication service in Go, plus a frontend in React.

Technologies: Java, SpringBoot, Lombok, JavaScript, React, Go, crypto, pgx.

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