

EGOR KONYK

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SKILLS

Languages	Go, C++, Python, Dart
Tools	Unix, GitHub, Docker
Databases	PostgreSQL, MongoDB, Redis
Other	Algorithms and data structures, gRPC, JWT, Websockets and Long Polling

EXPERIENCE

Freelance Python Developer *Nov 2021*
Created the largest list of microbes with experimentally determined growth conditions for scientific work, containing more than **25,000 entries** taken from 20 difficult-to-use websites.

PROJECTS

bot (commercial) Python (aiohttp, pydantic, aiomultiprocessing), PostgreSQL, HTML, JS, CSS *2019 - 2022*

- Developed a VK chatbot for students across the country to interact with the school diary site without leaving the messaging app.
- Struggled while reverse-engineering school diary API to build a code interface to use it.
- Established payment processing using the acquiring API of Sberbank and earned more than **\$1,500** with it.
- Introduced notifications about school mark updates feature which has been appreciated by more than **3,000 users**.

awwe (commercial) Go, Dart (Flutter), Redis, PostgreSQL, Msgpack *Nov 2021 - Present*

- Launched a full-stack mobile app to interact with the school diary site, reaching over **10,000 daily active users**.
- Released the diary saving feature which allowed students to check their assignments with **99% availability**.
- Taught myself Go, rewrote previous project's code from Python and implemented REST API.
- Applied best practices of implementing authorization using JWT and Refresh Tokens.
- Used Redis to share cache and avoid race conditions between backends.
- Decreased diary processing time by applying database indexes by **88%**.
- Improved backend performance by **89%** using caching.

English Words Go, Dart (Flutter), Redis, PostgreSQL, MongoDB, gRPC, Kafka *May 2022 - Aug 2022*

- Developing a full-stack mobile application to expand your English vocabulary.
- Applied microservice architecture, created **6 services** and communicated between them with gRPC and Apache Kafka what led to an increase in the scalability of the project.

EXTRA-CURRICULAR ACTIVITIES

- All-Russian Team Olympiad in programming 2021/22 (*place 118 out of 297*)
- All-Russian Olympiad in Informatics 2020/21 (*place 293 out of 383*), 2021/22 (*place 228 out of 384*)
- Regional Hackathon **School olympiads aggregator app** 2022 (*top 2 among 12 teams*)
- Codeforces (*rating 1631*)

PUBLICATIONS

- Karla Helena-Bueno, Charlotte R. Brown, **Egor Konyk**, Sergey Melnikov: Genome sequences hot and cold: a database of organisms with defined optimal growth temperatures, [biorxiv](https://doi.org/10.1101/2021.12.23.464111), December 23, 2021.