

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

PROJECTS

bot (commercial) Python (aiohttp, pydantic, aiomultiprocessing), PostgreSQL, HTML, JS, CSS botkz.me

- 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 for the entire lifetime of the project.
- 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, Docker awwe.pw

- Launched a full-stack cross-platform mobile app to interact with the school diary site, reaching over 400 daily active users.
- Released the diary saving feature which allowed students to check their assignments with 100% 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 to take care of the user's personal data.
- Used Redis to significantly speed up the backend response times.
- Saved time deploying project with Docker, easily transferring project from one VM to another.

English Words Go, Dart (Flutter), Redis, PostgreSQL, MongoDB, gRPC, Kafka, Docker [GitHub](https://github.com)

- 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.

Taxi Driver Matcher Go [GitHub](https://github.com)

- Built a performant RESTful service for matching taxi drivers with pedestrians.
- Coded QuadTree data structure for this purpose and covered the packages with tests by 99%.

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)
- 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/10.1101/2021.12.23.464444), December 23, 2021.