

EGOR KONYK

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SKILLS

Languages	Go, C++, Python, Dart
Frameworks	Flutter
Tools	Unix, GitHub, Docker
Databases	PostgreSQL, MongoDB, Redis
Other	Algorithms and data structures, gRPC, JWT, Websockets and Long Polling
Soft Skills	Communication, Time Management, Accountability, Curiosity

PROJECTS

- bot (commercial)** Python (aiohttp, pydantic, aiomultiprocessing), PostgreSQL, HTML, JS, CSS botkz.me
- Developed a VKontakte chatbot so that students across the country could interact with the school diary site without leaving messaging app.
 - Struggled while reverse-engineering school diary API and built a code interface to use it.
 - Implemented a user subscription and payment processing using the acquiring API of Sberbank and earned more than \$1,500 for the entire lifetime of the project.
 - Created the feature of sending notifications about school mark updates within a few minutes.
- awwe (commercial)** Go, Dart (Flutter), Redis, PostgreSQL, Msgpack, Docker awwe.pw
- Launched a full-stack cross-platform mobile app that allows you to interact with the school diary site, reaching over 400 daily active users.
 - Implemented the diary saving feature which allowed students to check their assignments even when the school site is down.
 - 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.
 - Significantly sped up backend response times with caching using Redis.
 - Saved my 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 and communicated between them with gRPC and Apache Kafka.
- Taxi Driver Matcher** Go [GitHub](https://github.com)
- Built a RESTful service for matching taxi drivers with pedestrians.
 - Implemented 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.