

# EGOR KONYK

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## SKILLS

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

## EXPERIENCE

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**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

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- 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** 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 *Nov 2021 - Present*
- Launched a full-stack cross-platform mobile app to interact with the school diary site, reaching over **700 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 *May 2022 - Present*
- 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

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- 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

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- 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.