

EKATERINA LUBYANKINA

Telegram ■ katylubyankina@gmail.com ■ [Github profile](#)

SUMMARY

I'm a motivated Python backend developer with a mathematical background in physics. Interested in building web applications with scalable, maintainable and fault-tolerant architecture. Aim to implement efficient algorithms at my work, so I regularly solve leetcode problems ([leetcode profile](#)) and participate in algorithmic competitions(e.g., Tinkoff Cup or Yandex CodeRun).

CORE COMPETENCIES

- | | | | |
|------------|--------------|----------------|-----------|
| • Python | • RabbitMQ | • Git | • Redis |
| • FastAPI | • SQLAlchemy | • Poetry/Conda | • Pytest |
| • Postgres | • RabbitMQ | • Docker | • MongoDB |

EXPERIENCE

[Audio-to-text bot \(Pet project\)](#)

July 2023 - Present

Web-service for processing input Youtube Video requests via [telegram bot](#) and computing text transcript of first 5 minutes of the provided video

- Integrated Whisper(Automatic Speech Recognition Neural Network) for audio transcribing
- Used RabbitMQ as a message broker for asynchronous interaction between workers
- Storage: intermediate data in MongoDB and MinIO/S3, Redis for caching

Stack: FastAPI, RabbitMQ, Telebot, Docker, Poetry, MinIO/S3, MongoDB, Redis, Loguru.

[News Feed app \(Pet project\)](#)

April 2023 - June 2023

Social web service, where users can create posts with pictures, interact with posts via comments, and view posts feed

- Web service with paginated CRUD endpoints and JWT authentication
- Storage: PostgreSQL RDBMS for user meta data with SQLAlchemy access, MinIO/S3 with users' posts pictures/media
- Test coverage > 90% with Pytest, deployable with Docker compose

Stack: FastAPI, PostgreSQL, SQLAlchemy, Docker, Poetry, MinIO/S3, Pytest, Loguru.

Laboratory assistant/ Engineer

December 2018 - January 2023

[Alferov University](#), Saint Peterburg, Russia

- Automated the processing and visualization of experimental data using Python
- Implemented scientific algorithms for several studies
- Published [papers](#) in physics and participated in international conferences.

EDUCATION

Alferov University, St. Petersburg
Bachelor of Applied Mathematics and Physics
With honours - 4.8 GPA

September 2016 - June 2020

Alferov University, St. Petersburg
Master of Electronics and Nanoelectronics
With honours - 5.0 GPA

September 2020 - June 2022