

# Mark Kashirskii

HH: <https://novosibirsk.hh.ru/resume/7dd6bcc0ff09c0c58a0039ed1f4263354f6d6c>

Github: <https://github.com/mariklolik>

Telegram: <https://t.me/mariklolik>

Email : [marshelo44@gmail.com](mailto:marshelo44@gmail.com)

Mobile : +7-983-186-7773

## EDUCATION

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- **Yandex Lyceum** Barnaul, Russia  
*Industrial programming on python ; Golden certificate of excellence* Sep 2017 - Aug 2019
  - **Backend:** Libraries: Flask, Django
  - **Data storage and processing libraries:** SQLAlchemy, MySQL, SQL language
  - **Frontend:** SASS, Haml, Bootstrap
  - **Rich experience in REST-API development:**
  - **Interfaces:** QT, Kivy
- **Yandex Backend Development School** Yandex, Remote  
*Backend Development and testing on python, DevOps/Deploy;* Sep 2022 - Dec 2022
  - **Backend Development:** FastAPI, Tornado, Flask, Architecture of distributed systems, microservices
  - **DevOps and Databases:** Docker compose, uvicorn, optimizations, Migrations, Advanced indexing, Architecture planning. Implementations via postgres, Redis, MongoDB
  - **Testing:** Highload, stress, soak and volume testing via PyTest, Debug logging
- **Novosibirsk State University** Novosibirsk, Russia  
*Software engineering ; GPA: 4.0* Aug 2021 - Aug 2025  
*Courses: Algebra and geometry, Informatics, Mathematical analysis, Mathematical logic and theory of algorithms, Programming, Digital circuitry, Discrete math, Math statistics, Probability theory*

## SKILLS SUMMARY

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- **Languages:** Python, C++, Java, C, SQL, Unix scripting
- **Frameworks and Libraries:** Flask, Django, Tornado, FastAPI, pytest, alembic, SQLAlchemy
- **Tools:** Docker, GIT, Matlab, Postgres, Redis, MongoDB, Yandex Cloud, Yandex Tank, UNIX-based systems administration

## EXPERIENCE

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- **Yandex Lyceum** Barnaul, Russia  
*Pet-Projects*
- **Flask Web project:** Developed the news aggregator website. The site shows my fullstack-development skills. The frontend uses HTML, HAML, SCSS, Bootstrap and Flask-Blueprints technology. Backend is developed on Flask. Connection to ORM database is realized with python framework SQLAlchemy.  
Project github: <https://github.com/mariklolik/stpj>
- **PyQt REST-API project:** Solution allows you to expand standard functionality of Yandex-Maps with your own scripts. Uses PyQt as UI.
- **Weather tracking app:** Designed and developed a PyQt-app to help users understand what to wear today. The weather info is received from OpenWeatherMap-api.
- **Yandex-Alice game:** Developed a game for Yandex-Alice smart assistant. In development I used Yandex-Alice api and SQLAlchemy to save user score and create a leaderboard.
- **Telgram, Discord, VK bots:** Developed different bots to simplify bussines interaction with potential users.

### Yandex Backend Development School

Yandex, Remote

**Url-shortener application:** Designed and developed application. Architected app with OpenAPI, as a part of task studied business-analytics to increase percentage of people using app. App uses FastAPI and uvicorn. Ssqlalchemy with alembic for DB and migrations

**Designing and integrating microservice app:** Studied a huge project of a pharmacy shop and developed a part of API to check the shopping bag. Api developed with Flask, DB is postgre

**Working with DataBases:** Done migrations of a huge database via Alembic, created indices to increase speed of search

**Testing:** Studied Unit, Integration and System testing. Implemented them via PyTest. Worked with Yandex Tank for highload testing

### Novosibirsk State University

Novosibirsk, Russia

*First course programming*

*Aug 2021 - August 2022*

- **C Language:** Worked on algorithms, studied at first course of university. Such as numerical systems calculator, Boyer-Moore algorithm, Huffman encoder, Graph algorithms and others. Developed tests for automatic testing system, constructed CMake-files. All alorihms are implemented in C language.
- **C++ Language:** Studied OOP concepts. Used them to do the following tasks: designing and implementing Linked HashSet data structure, creating Forth(programming language) interpreter, developing smart-pointers. Worked with STL