

# MICHIL EGOROV

+7(914) 263-9094 ♦ Saint-Petersburg, Russia

[egorovmichil9@gmail.com](mailto:egorovmichil9@gmail.com) ♦ <https://linkedin.com/in/michilegorov> ♦ <https://github.com/EgorovM>

## EDUCATION

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### ITMO University

Bachelor of Computer Science. GPA: 4.9/5.

Saint-Petersburg, Russia

Sep 2019 - Jan 2023

**Relevant Coursework:** Mathematical Analysis, Discrete Math, Databases, Python, C++.

## EXPERIENCE

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### ITMO University

Middle Software Engineer

Saint-Petersburg, Russia

June 2021 - Present

Python Django Docker Celery

- Designed microservice architecture and refactored monolith that decreased building, testing and delivering time up to 54%.
- Collaborated with Urban Department engineers to analyse Saint-Petersburg sight topics on Social networks. Established advertising record filtration algorithm **with 86% F1-score**.
- Implemented algorithm for synonyms keywords grouping that decreased total unique keywords from 11k to 6k.

### StarLine

Data Engineer, Transport Telematics

Saint-Petersburg, Russia

Oct 2021 - May 2022

Python SQL Big Data Image Processing

- Researched non-stable firmwares that **increased everyday connections for 4k devices**.
- Released algorithm that aggregate every month yearly ride statistics aggregation for 1 million users during 12 hours.

### Yandex

Software Engineer Intern, Internal services team

Moscow, Russia

Jul 2021 - Oct 2021

Python Django Fastapi

- Speed up page loading time **by 70% by optimizing** SQL requests and adding caching mechanism.
- Improved stability of the system by separating duty microservice from monolith by using the FastAPI library. **Implemented the main algorithm** of allocation people at shifts.

## PROJECTS

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- **School Access System (Personal Project).**

Designed a client-server architecture for attendance marking automatization by using **Django**.

Saved **3000 hours** per year **for 6** tutors. Reduced school paper consumption.

- **Sakha Language Handwritten Letters Recognition (Personal Project).**

Implemented the service for learning the Sakha language for preschoolers by using Django and Tensorflow frameworks. Created server to mining **about 8000 unique handwritten letter** examples **from 87** people for CNN fitting.

## PUBLICATIONS

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- Citywide quality of health information system through text mining of electronic health records. Applied Network Science 6, 53. Funkner, A.A., Egorov, M.P., Fokin, S.A. et al. (2021).
- Automatic Extraction and Decryption of Abbreviations from Domain-Specific Texts. Studies in Health Technology and Informatics. Egorov, M.P., Funkner, A.A. (2021).
- Geographical Topic Modelling on Spatial Social Network Data. Procedia Computer Science, 193. A.A., Elkhovskaya L.O., Egorov M.P. et al. (2021)

## PROGRAMMING SKILLS

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- **Languages & Frameworks:** Python, Pytorch, Celery, Django, C++, Java, JavaScript, React, Dart, Flutter.
- **Technologies:** Unix, Bash, Git, Docker, PostgreSQL, Redis, Grafana, Portainer.
- **Knowledge:** Algorithms, Data Structures, Operating Systems, CI/CD