# Alex Kulikov

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## EDUCATION

### MOSCOW INSTITUTE OF PHYSICS & TECHNOLOGY

BS in Applied Mathematics & Computer Science
Grad. July 2017 | Moscow, Russia
GPA: 3.4/4.0

**Bachelor Thesis**
Subject: N-gram models applied to OCR error correction in Japanese

**Coursework**
Algorithms & Data Structures • Computational Linguistics • Theory of Computation • Discrete Analysis • Linear Algebra • Machine Learning • Formal Languages & Compilers • Project Management

## SKILLS

### PROGRAMMING LANGUAGES & TECHNOLOGIES

Recent experience:
APIs (REST, GraphQL) · C/C++ · CI/CD · DevOps · Git · **Hack(PHP)** · Java · LaTeX · **Mercurial** · **Python** · Pytest · React · Raspberry Pi · SQL · **Unix**

Needs brushing up:
Django · Doxygen · ELK · Flask · Hadoop · Keras · NLTK · MongoDB · Powershell · Pytorch · Redis · Ruby · Rust · Scrapy · Swagger · Tensorflow · x86Asm

### HUMAN LANGUAGES

Russian (native) • English (fluent) • French (intermediate, DELF B1 diploma, participant of All-Russian Olympiad Finals) • Deutsch, Spanish (beginner)

## INTERESTS

### VOLUNTEERING

Volunteered in multiple projects as sofware engineer and helpline operator.

### TEACHING

Teaching experience since 2012. Several courses in Maths and CS. Dozens of school contests in Math and Physics: checking solutions, organizational activities.

## EXPERIENCE

### META | Software Engineer

Since February 2020 | Hack(PHP), React | London, UK
- Led the reliability workstream (6 people) on Data Transfer Project (DTP);
- Achieved a 7x drop in DTP failure rate and overhauled the monitoring pipeline;
- Implemented several features in Spark AR Hub Insights UI and data pipeline;
- Mentored new people on the teams, conducted 70+ interviews.

### Software Engineer Intern

July 2019 – October 2019 | Python2/3, C++14, MySQL | London, UK
- Designed and implemented a snapshot extension for Mercurial (Github repo).

### YANDEX.TAXI | Software Engineer

June 2018 – July 2019 | C++14, Python2, MongoDB | Moscow, Russia
- Implemented the whole backend of the award-winning New Year's promotion;
- Refactored a major part of the core backend, gaining 2x performance boost;
- Supervised new members of the team.

### MIPT | Teaching Assistant | Python (lectures), Compiler theory

September 2017 – June 2019 | Moscow, Russia

### ABBYY

**Junior Software Engineer**
February 2017 – June 2018 | C++03, MS SQL Server | Moscow, Russia
- Improved performance of linguistic domain model compiler by 5x;
- Implemented several major features in the internal linguistic software.

## SELECTED PROJECTS

### COMMON | Backend Engineer

Since April 2022 | Python, DevOps, Github Actions | cmoncmon.co
- Developed a Telegram bot for refugee students and volunteer teachers.

### SYSBLOK | DevOps Engineer

Since April 2020 | Python, Pytest, Github Actions | sysblok.ru (in Russian)
- Implemented several features for an internal Telegram bot used by editorial board of a non-profit popular science media.
- Established a CI process with deploy, test and logging infrastructure.

### COME2GATHER | Fullstack Engineer

October 2018, HackUPC | Python, Flask, Leaflet | repo
- Collected flights data with Skyscanner API and visualized it with Leaflet.

### BLOCKED.HERE | Backend Engineer

April 2018, Hack.Moscow – June 2018 | Python, Flask, HERE Maps API | repo
- Implemented automatic data updates and IP resolving.

## AWARDS

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|---|---|
| 2019 | JunctionXBudapest, Nokia track |
| 2018 | Hack.Moscow 2.0, overall top-10 |
| 2018 | Hack.Moscow, special prize from Roskomsvoboda, overall top-10 |
| 2018 | Whatever Hack by OpenDataScience, 4th / 25 teams |
| 2017 | MLH Local Hack Day, TimePad track winner |
| 2013 | All-Russian Internet Olympiad in Physics, 3rd / 1500 participants |