

# FEDOR KUYANOV

Moscow, Russia

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## Education

### Higher School of Economics

*Bachelor of Science in Computer Science, GPA 9.81 (1-10)*

**September 2020 – July 2024**

*Moscow, Russia*

## Work experience

### Yandex

*Software Engineer Intern*

**May 2021 – August 2021**

*Moscow, Russia*

- Worked in a team responsible for the quality of Yandex voice assistant Alice.
- Enhanced scenario classification by adding new factors and adapting learning process for different devices.
- Added tests to ensure classifier's validity.
- Ran an experiment on real users to measure its quality.
- As a result, the classifier's quality had been improved on some devices by 30%.

## Other experience

- Worked as a teacher assistant in math analysis in School №57 (for 9M)
- Worked in summer informatics workshop as a coach for Russian national team candidates
- Submit problems for high school Olympiads, such as Vyshaya Proba in math, Open Olympiad in Informatics
- Evaluate students' solutions of Russian math Olympiads, such as Matprazdnik, Regional stage of the All-Russian Olympiad in Mathematics

## Projects

Fejudge | *Python, Linux kernel*

**September 2021**

- This is a contest management system, like Topcoder or Codeforces.
- It uses several Linux kernel features and supports simultaneous evaluation of solutions on different machines.
- Also provides a nice web interface for participants.

TheTrueHat | *JavaScript*

**August 2021**

- Hat (Alias) is a multiplayer game, in which each player picks a word from the hat and explains it to their partner as quickly as possible. This project allows you to play Hat from your browser.

JaggedLine | *Kotlin*

**January 2021**

- This is a geometric puzzle, in which you must build the longest non-self-intersecting polygonal chain from start to end.
- Also contains a mode which allows you to find the best solution automatically.

Examiner | *Python, QT*

**September 2019**

- The purpose of this project is to build a platform to automate school exams.
- Provides UIs for students and teachers and enables automatic verification of various tasks.

## Skills & interests

- **Programming languages:** C/C++, Python, Kotlin, HTML/CSS, JavaScript, Bash, SQL
- **Frameworks:** QT, numpy, pytorch, Flask, React, Vue
- **Tools:** CI/CD, git, docker, gdb, cmake
- **Computer science skills:** advanced algorithms & data structures – studied since 2016 for programming competitions
- **Mathematical skills:** linear algebra and geometry, discrete math, probability theory, math analysis
- **Interested in:** discrete math, theoretical computer science, high-load systems, web-servers, front-end (a little)

## Olympiad achievements

- Gold medal at IMC 2021
- 8th place (silver medal) at the Semifinal ICPC 2020 – 2021, NERC
- Winner of several inter-university math competitions: NCUMC, OMOUS, MIPT, OSAM Comp'21
- 1st place at the All-Russian Team Olympiad in Informatics (2018-2019)
- Winner of the All-Russian Olympiad in Informatics (2018)
- Prize-winner of the All-Russian Olympiad in Mathematics (2018, 2019, 2020)
- Codeforces

## Other achievements

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- 6 times winner of the International Mathematical Tournament of Towns (2014 - 2019) and took part in its Summer Conference
- Participated in the summer school Contemporary Mathematics
- Made a presentation for the Moscow Mathematical Conference of High School Students (2017), describing an ingenious solution of a geometrical problem

## Languages

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- English: C1 (IELTS 7.0)
- Russian: Native speaker

## Hobbies

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- Railway modelling, Lego
- Chess, speed-cubing (3x3, 36 secs), ping-pong
- Classical piano – finished 8-year Gnesin music school and performed with the orchestra, YouTube, winner of Moscow and international piano competitions