

# FEDOR KUYANOV

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## Education

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### Higher School of Economics

*Bachelor in Computer Science, GPA 9.71/10*

September 2020 – July 2024

*Moscow, Russia*

## Work experience

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### Yandex

*Software Engineer Intern*

May 2021 – August 2021

*Moscow, Russia*

- Member of the team responsible for the quality of Yandex voice assistant Alice.
- Enhanced scenario classification by adding new factors and adapting learning process for different devices.
- Ran an experiment on real users to measure its quality.

### Summer informatics workshop

*Coach*

June 2020

*Moscow, Russia*

- Prepared practice contests and tutorials for Russian national team candidates.

## Projects

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### Wordle | C++, JavaScript

August 2022

- In this game, you must guess a 5-letter word in 6 tries, based on the information about each letter.
- Has two modes: “random” and “hater”, meaning that the answer is selected randomly or adaptively.
- Also implemented a heuristic strategy that uses 3.52 tries on average, which is close to the best 3.42.

### Fejudge | Python, Linux kernel

September 2021

- This is a management system for programming contests with web interface.
- It uses several Linux kernel features (such as cgroups) and supports simultaneous evaluation on different machines.

### TheTrueHat | JavaScript, Vue

August 2021

- This project allows you to play the Hat (Alias) game from your browser.

### Kotline | Kotlin, React

January 2021

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

### Examiner | Python, QT

September 2019

- A platform to automate school exams, with UIs for students and teachers.

## Skills & interests

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- **Programming languages:** C/C++, Python, Kotlin, HTML/CSS, JavaScript, Bash, SQL
- **Libraries & frameworks:** QT, numpy, matplotlib, pandas, pytorch, Flask, React, Vue
- **Tools:** CI/CD, git, docker, gdb, cmake
- **Computer science skills:** advanced algorithms and data structures, including distributed and streaming algorithms
- **Mathematical skills:** linear algebra and geometry, discrete math, probability theory, math analysis, etc.
- **Interested in:** theoretical computer science, high-load systems, web-servers, front-end

## Awards

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- Ilya Segalovich Scholarship, the top award of Computer Science Faculty, HSE (2022)
- Tinkoff Scholarship (2022)

## Olympiad achievements

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- Gold medal at IMC 2021 and IMC 2022
- Silver medal at Semifinal ICPC 2020, NERC
- 1st place at the All-Russian Team Olympiad in Informatics (2018-2019)
- Winner of the All-Russian Olympiad in Informatics (2018), prize-winner in 2017, 2019, 2020
- Prize-winner of the All-Russian Olympiad in Mathematics (2018, 2019, 2020)
- Codeforces

## 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