

# FEDOR KUYANOV

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## Education

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### Higher School of Economics

*Bachelor in Computer Science, GPA 9.72/10*

**September 2020 – July 2024**

*Moscow, Russia*

### Summer schools

- Contemporary Mathematics (2019)
- Summer Conference of the International Mathematical Tournament of Towns (2018)

## Work experience

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### HSE, Laboratory of Theoretical Computer Science

*Research assistant*

**September 2022 – December 2022**

*Moscow, Russia*

- Research in the field of Mathematical Physics and Number Theory: Feynman checkers.
- Preprint is available on [arxiv](#).

### Moscow State School 57

*Teaching assistant*

**September 2022 – December 2022**

*Moscow, Russia*

- Assisted math analysis and programming lessons in Moscow State School 57, one of the top math schools in Russia.

### Huawei

*Software Engineer*

**June 2022 – December 2022**

*Moscow, Russia*

- Member of the graph computing team focused on the simulation of fluid and gas processes using discrete lattices.
- Implemented distributed versions of algorithms in Linear Algebra, such as Conjugate gradient method and Lanczos algorithm.

### 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.

### Summer informatics workshop

*Coach*

**June 2020**

*Moscow, Russia*

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

## Conferences

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- 29th International Scientific Conference "Lomonosov" (2022), Number-Theoretic Properties of the Wave Function in Feynman Checkers Model

## Projects

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### Wordle | C++, JavaScript

**August 2022**

- The goal of this game is to guess a 5-letter word in 6 tries, based on the information about each letter.
- 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 a 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 playing the Hat (Alias) game from the browser.

### Kotline | Kotlin, React

**January 2021**

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

## 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
- **Interested in:** Discrete Math, Theoretical Computer Science

## 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
- Winner of several inter-university math competitions: NCUMC, OMOUS, MIPT, OSAM Comp'21
- Prize-winner of the All-Russian Olympiad in Mathematics (2018, 2019, 2020)
- Winner of the All-Russian Olympiad in Informatics (2018), prize-winner in 2017, 2019, 2020
- 6 times winner of the International Mathematical Tournament of Towns (2014 - 2019)

## Languages

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