

# 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*

## Work experience

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### Huawei

*Software Engineer*

**June 2022 – December 2022**

*Moscow, Russia*

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

### Yandex

*Software Engineer Intern*

**May 2021 – August 2021**

*Moscow, Russia*

- Worked in the team responsible for the quality of Yandex voice assistant Alice.
- Enhanced scenario classification by adding new factors and adapting the 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**

- 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 record 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.

### 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 modeling, 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