

FEDOR KUYANOV

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Education

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

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 best math schools in Russia.

Huawei

Software Engineering Intern

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

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

Projects

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.

Skills & interests

- **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

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

Olympiad achievements

- 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

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