

FEDOR KUYANOV

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Education

Higher School of Economics

Bachelor in Computer Science, GPA 9.71/10

September 2020 – July 2024

Moscow, Russia

Summer schools

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

Work experience

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.

Moscow State School №57

Teaching assistant

February 2021 – March 2021

Moscow, Russia

- Assisted math analysis in Moscow State School №57, one of the best mathematical schools in Russia.

Summer informatics workshop

Coach

June 2020

Moscow, Russia

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

Other

- Jury member of All-Russian Olympiad in Mathematics (regional stage) and Matprazdnik.

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