FEDOR KUYANOV

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Education

Higher School of Economics

September 2020 – July 2024

Bachelor in Computer Science, GPA 9.72/10

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

September 2022 – December 2022

Research assistant

Moscow. Russia

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

Moscow State School №57

September 2022 – December 2022

Teaching assistant

Moscow, Russia

Assisted math analysis and programming lessons in Moscow State School №57, one of the top math schools in Russia.

Huawei

June 2022 – December 2022

Software Engineer

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 May 2021 – August 2021

Software Engineer Intern

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

June 2020

Coach

Moscow, Russia

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

Conferences

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

Projects

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

- 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

- \bullet 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 <u>International Mathematical Tournament of Towns</u> (2014 2019)

Languages

• English: C1 (IELTS 7.0)

• Russian: Native speaker