FEDOR KUYANOV

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Education

Higher School of Economics　　　　　　　　　　　　　**September 2020 – July 2024**
Bachelor of Science in Computer Science, GPA 9.81 (1-10)　　　　　　　*Moscow, Russia*

Work experience

Yandex　　　　　　　　　　　　　　　　　　　　**May 2021 – August 2021**
Software Engineer Intern　　　　　　　　　　　　　　　　　*Moscow, Russia*

- Worked in a team responsible for the quality of Yandex voice assistant Alice.
- Enhanced scenario classification by adding new factors and adapting learning process for different devices.
- Added tests to ensure classifier's validity.
- Ran an experiment on real users to measure its quality.
- As a result, the classifier's quality had been improved on some devices by 30%.

Other experience

- Worked as a teacher assistant in math analysis in School №57 (for 9M)
- Worked in summer informatics workshop as a coach for Russian national team candidates
- Submit problems for high school Olympiads, such as Vysshaya Proba in math, Open Olympiad in Informatics

Projects

Fejudge | *Python, Linux kernel*　　　　　　　　　　　　　　**September 2021**

- This is a contest management system, like Topcoder or Codeforces.
- It uses several Linux kernel features and supports simultaneous evaluation of solutions on different machines.
- Also provides a nice web interface for participants.

TheTrueHat | *JavaScript*　　　　　　　　　　　　　　　　**August 2021**

- Hat (Alias) is a multiplayer game, in which each player picks a word from the hat and explains it to their partner as quickly as possible. This project allows you to play Hat from your browser.

JaggedLine | *Kotlin*　　　　　　　　　　　　　　　　　**January 2021**

- This is a geometric puzzle, in which you must build the longest non-self-intersecting polygonal chain from start to end.
- Also contains a mode which allows you to find the best solution automatically.

Examiner | *Python, QT*　　　　　　　　　　　　　　　　**September 2019**

- The purpose of this project is to build a platform to automate school exams.
- Provides UIs for students and teachers and enables automatic verification of various tasks.

Skills & interests

- **Programming languages:** C/C++, Python, Kotlin, HTML/CSS, JavaScript, Bash, SQL
- **Frameworks:** QT, numpy, pytorch, Flask, React, Vue
- **Tools:** CI/CD, git, docker, gdb, cmake
- **Computer science skills:** advanced algorithms & data structures – studied since 2016 for programming competitions
- **Mathematical skills:** linear algebra and geometry, discrete math, probability theory, math analysis
- **Interested in:** discrete math, theoretical computer science, high-load systems, web-servers, front-end (a little)

Olympiad achievements

- Gold medal at IMC 2021
- 8th place (silver medal) at the Semifinal ICPC 2020 – 2021, NERC
- Winner of several inter-university math competitions: NCUMC, OMOUS, MIPT, OSAM Comp'21
- 1st place at the All-Russian Team Olympiad in Informatics (2018-2019)
- Winner of the All-Russian Olympiad in Informatics (2018)
- Codeforces

Other achievements

- 6 times winner of the <u>International Mathematical Tournament of Towns</u> (2014 - 2019) and took part in its Summer Conference
- Made a presentation for the <u>Moscow Mathematical Conference of High School Students</u> (2017), describing an ingenious solution of a geometrical problem

Languages

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

Hobbies

- Railway modelling, Lego
- Chess, speed-cubing (3x3, 36 secs), ping-pong
- Classical piano – finished 8-year Gnesin music school and performed with the orchestra, <u>YouTube</u>, winner of Moscow and international piano competitions