

# ZAMIR ASHURBEKOV

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## SUMMARY

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3rd year student. I have extensive experience in solving competitive/algorithmic programming problems and discrete optimization problems, I regularly participate in competitions in this area. In addition, there is knowledge and interest in ML, continuous optimization and numerical methods. I am writing in a bunch of C++ and Python.

## EDUCATION

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### NRU HSE, FCS AMI

- Advanced group in mathematics and programming.
- Specialization "Theoretical Informatics".
- Courses: algorithms and data structures, theory of computing, numerical methods, machine learning, optimization methods, computer architecture and operating systems, distributed systems.

## SKILLS

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- C/C++, Python, x86 asm, NodeJS,  $\text{\LaTeX}$
- Linux, git
- NumPy, SciPy, matplotlib, pandas, tensorflow, keras, NLP

## ACHIEVEMENTS

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- Prize-winner of the Russian Olympiad in Informatics.
- Gold medalist of the Open Programming Olympiad.
- Participant of the Russian Olympiad in Mathematics.
- International Master at codeforces.com.
- 71 place final Yandex Cup' 20 "Algorithm"
- 1-st degree diploma in Siberian Mathematical Competition
- 3-rd degree the final of the Moscow open trains in Informatics

## PROJECTS

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### Speciation in discrete optimization problems

- An attempt to introduce the idea of inter-species interaction into the evolutionary algorithm.
- The project is written as part of a term paper based on a master's thesis. At the moment, work continues.
- Among other things, HDBSCAN clustering is implemented and built in, the implementation surpasses the existing open counterparts in C++ in terms of conciseness.

### VkTeX

- A bot for compiling code in TeX notation into a bitmap adapted for VK.
- It has been working for a year, several people use the bot every day.
- Based on the results of the work, an article was published on proglab.io.
- You can test it in the group's private messages using the link [vk.com/vktexbot](https://vk.com/vktexbot).

## PROFILES

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### Codeforces

- [codeforces.com/profile/Derbent](https://codeforces.com/profile/Derbent)
- A platform with regular sports programming competitions.

### Github

- [github.com/ZashX](https://github.com/ZashX)
- I started working with git during the coursework, but since its repository is closed until the protection itself, there is nothing interesting in the profile.