Ramazan **Rakhmatullin**

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Education

Higher School of Economics   *Moscow, Russia*

BACHELOR OF SCIENCE IN APPLIED MATHEMATICS AND COMPUTER SCIENCE   *September 2018 - June 2022*

- Machine Learning and Applications, 8.04/10 GPA

Skills

Fields of interest   Algorithms and Data Structures, Combinatorics, Complexity Theory, Applied Statistics, Discrete Optimization, Time efficient implementations in C++, Machine Learning, Deep Learning

Languages   C++ (9 years), Python (3 years), Java (2 years)

Other   Pytorch, Numpy, CatBoost, Pandas, Perf, Docker, Bash, Git

Achievements

PERSONAL

Aug. 2021	**Winner**, VK Cup The most prestigious programming competition for Russian speaking community	*Online*
Sep. 2018	**11th, Gold, National champion**, IOI The most prestigious high school programming competition	*Tokyo, Japan*
Oct. 2021	**3rd**, IMC Coding Challenge Discrete optimization competition with valuable prizes	*Online*
Dec. 2020	**21st**, Facebook Hacker Cup Over 18,000 students and professionals in a programming competition	*Online*
Jun. 2021	**39th all time high**, Codeforces — the most popular programming competitions platform Profile: never_giveup 3058 max rating	*Online*

TEAM COMPETITIONS

Nov. 2022	**9th, Bronze medal, Regional champion**, ICPC WF Dhaka representing HSE University (as a captain and coach, I set up practice curriculum and team strategy, analyze and fix mistakes)	*Dhaka, Bangladesh*
Apr. 2021	**2nd**, ICPC Northern Eurasia Finals The most prestigious programming competition for students	*Saint Petersburg, Russia*
Apr. 2020	**6th**, Google Hash Code Over 100,000 students and professionals in an optimization competition	*Online*
Feb. 2022	**2nd**, Petrozavodsk Winter Camp — The most competitive training camp for ICPC participants	*Online*

Work

Yandex Delivery   *Moscow, Russia*

SWE & DATA SCIENCE   *July 2022 - November 2022*

- Solving NP-hard combinatorial optimization problem of maximum weighted matching in hypergraph

National IOI Team Summer and Winter Camps   *Moscow, Sochi, Russia*

COACH   *November 2018 - June 2022*

- Intensive training and selection of the national IOI team
- Giving seminars on problem solving techniques
- Creating and preparing complex CS tasks for the selection competitions

Ledidi   *Oslo, Norway*

SOFTWARE ENGINEER & AI DEVELOPER   *March 2020 - February 2021*

- Developing AI-based help chatbot for customers

Projects

- Bachelor's thesis about fast algorithm for computing maximum matching without crossings in convex bipartite graphs, extending this paper (LIS, self-balancing trees, dynamic programming, tight bounds)
- Implementation of paper about dynamic maximum matching in convex bipartite graph (matroid theory, bipartite matchings, self-balancing trees, divide and conquer technique)
- Coursework about fast ILP algorithms for checking Nash solvability of specific game classes
- Member of jury of the Russian National Olympiad in Informatics
- Creating and preparing complex tasks for popular CS school competitions: APIO 2019 A, Russian NOI, many others
- DL Homeworks from university course about training deep models from scratch