



Rustam Guseyn-zade

Birthday:

November 16th 1998

Languages:

- Russian (native)
- English (upper-intermediate/advanced)

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Russian Federation

Rustam Guseyn-zade

Student | Higher School of Economics University | Computer Science

Education

2016 - 2020, Higher School of Economics University

BS in Computer Science

2011 - 2016, Physics and Mathematics Lyceum "The Second School"

Class with in-depth study of Maths

Experience

Oct 2017 - Feb 2018, Team Manager, "School of IT-solutions"

Was manager of even 2 teams and both reached the final

July 2017 - Aug 2018, Teacher of Maths, Mathematical camp "Berendeev glades"

2013 - 2016, Participation in various maths olympiads

Was interested in olimpiads from childhood and did it successfully. Short Lists with names of olympiads:

- District stage of the All-Russian Olympiad of schoolchildren (2014 - 2016)
- Moscow Mathematical Olympiad (2013) in Mathematics II degree, the Delaunay Prize;

Projects

Dec 2017 - present, Developer, Higher School of Economics University

Web-application, related with maps. Ideally, the application should mark more lighted and safer road sections

Passed courses

Computer architecture and operating systems

- Assembly
- Linux operating system: deployment and operation using the command line interface
- Representation of integers. The order of the bytes is Big-Endian and Little-Endian.
- Organization of stack frames and position-independent code.
- Work with the file system using the POSIX API.
- Working with virtual memory. Files that are mapped to memory.
- Unnamed and named pipes. Redirection of input-output. Conveyor.

Probability Theory

Discrete Math

- Simplex method
- Duality. Applications of the duality of Linear Programming
- Canonical types of Linear Programming problems.

Linear algebra and geometry

Additional chapters to Linear algebra and geometry

Additional chapters to Algorithms and data structures

- Turing machine.
- NP-hard and NP-complete problems
- Ratio of classes NP and EXPTIME. The theorem on the hierarchy of problems in time.
- Segmentation of images into several classes. The NP-difficulty of the task of segmenting images into three classes.
- The NP-difficulty of clustering, which minimizes the maximum intra-cluster distance.
- Randomized algorithms.

Algorithms and data structures

Various Basic Algorithms and concepts

Fundamentals and methodology of programming

Python C++ , realization of various structures



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Software Development Skills

- Programming**
- C/C++
 - Python
 - Assembly
 - HTML
 - CSS
 - JavaScript
 - PHP

Interests

Professional
Data analysis, artificial intelligence, web design, web app creation, software design, game development, maths

Personal
Drawing, guitar, cooking, swimming, cinema and writing scripts for shortmovies or games