Rustam Guseyn-zade

Birthday:
November 16th 1998

Languages:
- Russian (native)
- English (upper-intermidiate/advanced)

rustam.guseynzade@gmail.com
Telegram
Github
+7 (919) 728 66 96

Address:

d.11K3
Novocheremushkinskaya,
Moscow, 117447
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

Jule 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

20 Mar - 22 Mar 2017, *Developer*, Own project in Hack.Moscow hackathon, named TripBot
Telegram-bot, that issues short stories that you can fully read during your trip on transport, and open it on Telegraph

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

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Fundamentals and methodology of programming

Pyton C++, realization of various structures

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