

# Alexandra Ievleva

8 (916) 174-10-47 | [ievleva.alexa@gmail.com](mailto:ievleva.alexa@gmail.com) | [github.com/Unconsciouszzz](https://github.com/Unconsciouszzz)

## EDUCATION

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### **NRU Higher School of Economics**

Moscow, Russia

Bachelor Student in Applied Mathematics and Computer Science

Sep. 2020 – Present

- ◊ Merit-based scholarship, covering 100% of tuition.
- ◊ **Coursework:** Algorithms and Data Structures (advanced), Computer Architecture, Advanced C++, Linear Algebra and Geometry, Probability Theory, Fundamental of Matrix Computations, Calculus, Discrete Mathematics.
- ◊ **GPA** (freshman year): 8.18/10.0

## PERSONAL PROJECTS AND WORK EXPERIENCE

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### **Teaching assistant of the Linear Algebra and Geometry course**

HSE AMI, 2021 - Present

- ◊ Provide student with consulting hours and analysis of previous years' exams and tests.
- ◊ Mark submitted homeworks.
- ◊ Help build students' intuition for LAaG material. Help with developing the structure of course, organization and conceptions of colloquiums.

### **Analysis of human movement data collected via mobile phone**

HSE AMI, 2021

- ◊ Collected data via g-Force such as walking, running, cycling and driving in order to implement algorithm to learn how to distinguish one another.
- ◊ Learnt about Machine Learning (worked with numpy, pandas, matplotlib and seaborn libraries in Python).
- ◊ Implemented Fourier transform.

### **Implemented HashMap**

HSE AMI, 2021

- ◊ Learnt about different approaches to collision resolutions. Implemented one with open addressing.
- ◊ Improved C++ skills.

### **Week-long Programming Camp for 7-10th grade students**

Academic School 1534, 2020

- ◊ Prepared materials and gave 7 lectures. Developed a range of algorithms syllabi.
- ◊ Created 3 programming contests.

### **Website with information about films**

Academic School 1534, 2019

- ◊ Improved programming skills in HTML/CSS, SQL.

## COMPETITIVE PROGRAMMING

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### **All-Russian Olympiad of Computer Science Moscow School Olympiad in Informatics**

2020

Bronze Medal – 67th place of about 550 participants.

### **Russian National Olympiad of Computer Science (semifinal)**

2019/2020

Silver Medal – 225th place of about 3500 participants.

### **Team Olympiad Contest in Programming Vysshaya Proba by HSE university (final)**

2019

Silver Medal – 38th place of about 250 participants.

### **All-Russian Olympiad of Computer Science School Olympiad organized by SPbU**

2020

Participant – 122nd place of about 500 participants.

## TECHNICAL SKILLS

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**Languages:** C++, Python, SQL, HTML/CSS, basic Haskell.

**Tools:** Git, Shell, LaTeX.

## ACHIEVEMENTS

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### **Education:**

- ◊ Summer Informatics School 2017 (Kostroma, Russia), 2019 (Narva, Estonia). Studied advanced algorithms and data structures.
- ◊ Summer Informatics Camp 2018 (Perm, Russia). Studied advanced algorithms and data structures.
- ◊ Programming School "GoTo" 2019 (Moscow, Russia). Studied functional programming and data analysis.

## ADDITIONAL INFORMATION

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**Languages:** Russian (native), English (fluent; IELTS – Band 7.5).

**Hobbies:** Russian catamaran paddling: Karelia (2017, 2018; distance of 100km), Karelia (2019, 2021; distance of 200 km); Attended Art Studio (2006-Present): numerous exhibitions in different galleries.