

# Matvey Gusarov

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## EDUCATION

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**Moscow Institute of Physics and Technology**

**Moscow, Russia**

*Bachelor of Computer Technologies*

*Expected Graduation, Jun 2025*

GPA: 8.0/10

**SENC MSU, Kolmagorov school**

**Moscow, Russia**

*Physics and Mathematics Class*

*Graduated, Jun 2021*

GPA: 4.7/5.0

## PROJECTS

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**Online Store with Aiogram**

*Mar 2022*

- Developed a Telegram bot working with a database: Python3, Aiogram, SQL3.
- Wrote various levels of interaction with the bot and database.

**Online Store with Flask**

*May 2022*

- Developed a site on Flask with the possibility of payment.
- HTML5, CSS3

**Unordered Map**

*Apr 2022*

- Wrote an implementation of Unordered Map in C++ from STL.  
Template class `UnorderedMap<Key, Value, Hash, Equal, Alloc>`,  
where Key is the key type, Value is the value type,  
Hash is the hash function to use (default is `std::hash<Key>`),  
Equal - used comparer (default - `std::equal_to<Key>`),  
Alloc - used allocator (default - `std::allocator<std::pair<const Key, Value>`).

**SharedPtr**

*May 2022*

- Wrote an implementation of SharedPtr in C++ from STL.  
Template class `SharedPtr<T>`.  
There is support for the standard Deleter and Allocator.

**Algorithms**

*May 2022*

- Dynamic programming
- Segment Tree
- Search Tree
- The simplest algorithms on graphs: DFC, DFS, cycle search
- Algorithm for finding articulation points of a graph with multiple edges
- The task is to find the maximum flow of minimum cost

## ACHIEVEMENTS

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**All-Russian Olympiad in Physics Prize Winner**

**Tumen, Russia**

*Top-63 / 180 in the final, in total >50000 participants*

*Apr 2021*

- Passed 4 qualifying stages, the final one consisted of 5 theoretical tasks and 2 practical ones.
- The most prestigious olympiad in physics in Russia.

**All-Russian List Olympiads**

**Moscow, Russia**

*Became the winner in the Olympiads:*

*Mar 2021*

- Olympiad "Phystech" in physics
- Moscow School Olympiad in Physics
- Olympiad "Rosatom" in physics

## ADDITIONAL

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- Relevant Courses: Programming Methodology and Data Structures in Python and C++, Algorithms, Linear algebra and geometry, Probability and Statistics, Discrete Math, Mathematical analysis, Differential Equations.
- Programming languages: Python3, C++20, SQL3, HTML5/CSS3.
- English B2, blindly typing, sportsman, non-drinker, non-smoker, proactive, goal-oriented, implemented a time management system, public speaking, motivating, energetic.