

# MARGO SAGITOVA

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## EDUCATION

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**Moscow Institute of Physics and Technology**

September 2019 - August 2023

#11 [QS EECA University Rankings 2020](#)

(Expected)

Bachelor's degree in Applied Mathematics, Physics and Computer Science

GPA 9.05 of 10

## WORK EXPERIENCE

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**Russian Foundation for Basic Research grant № 20-07-00222**

January 2019 - Present

*"Synthetic DNA as an information carrier for long-term storage of non-biological data in it, including the creation of a prototype of an oligo library from NYRN oligonucleotides"*

- Analyzing DNA-computing algorithms and information coding systems.
- Designing the prototype of the coding system.

**Russian Foundation for Basic Research grant № 18-29-14076**

August 2018 - Present

*"Legal and ethical aspects of the general DNA certification of the population of the Russian Federation for the purpose of DNA identification of a person"*

- Designing and developing searching software for molecular biologists.

## ACHIEVEMENTS

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**Co-author of the article "Non-biological application of DNA molecules"**

DOI:10.31301/2221-6197.bmcs.2019-28

**Co-applicant of the patent "Coding methods using nitrogenous bases of DNA and oligotecs"**

Russian Federation patent application № 2019126609

## PROJECTS

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**Strategy Game**

May 2020

- Collaborated with a classmate to develop a cross-platform game in C++.
- Learned diverse *design patterns* and implement clear and flexible architecture.
- Designed game engine classes and developed game mechanics.

**Website for DnD players**

April 2020

- Learned *Django framework* in two weeks and developed backend using *PostgreSQL* database.
- Created frontend using *HTML*.

**Desktop App for SNPs Search**

March 2020

- Collaborated with molecular biologists to design universal searching app.
- Developed an app that allows to find different patterns in SNPs with *Tkinter package*.

**Algorithms and Data Structures practice**

January 2020 - May 2020

- Implemented different *data structures and algorithms* including *BigInteger*, *List*, *Planarity Check* in C++.

## TECHNICAL SKILLS

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**Languages**

C++, Python, C

**Technologies**

Git, NumPy, Tkinter, Django

**Other**

LaTeX, Linux