

# GULNARA SUNGATULLINA

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## EDUCATION

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**Moscow Institute of Physics and Technology, Russia**

*Sep 2018 - July 2022*

Bachelor in Applied Mathematics and Computer Science

Department of Innovation and High Technology

GPA: 4.6/5

**Relevant courses:** Algorithms and Data Structures, C++, Computer Architecture of Operating Systems, Programming Technology, Databases, Discrete Mathematics, Algebra, Differential Equations, Calculus

**Extra:** Deep Learning School (ML basics, pytorch, optimizations, CV)

## TECHNICAL STRENGTHS

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<b>Languages</b>	proficient in C++(Boost, STL), confident in Python(pytorch, sklearn), C, C#, SQL, familiar with Bash, ARM/x86 Assembly
<b>Technologies</b>	experienced with Git, Linux, PostgreSQL, Jupyter, Colab, Docker familiar with Amazon Web Services, Travis CI

## PROJECTS

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### HR database (SQL)

- Designed a normalized database and filled it in.
- Created views, triggers, and procedures in order to simplify the work of labor officers.

### Telegram Compiler bot (Python)

- Developed a telegram bot, which helps to compile and receive program output via messenger.
- Used REST API of an online compiler site for proper functioning.
- Set up AWS Virtual Machine for maintaining constant work.

### [Journey to Springfield](#) (Python/pyTorch)

- convolutional classifier to distinguish all Springfield residents from the picture
- 0.96 score on Kaggle(top 72%)

### [Travelling Salesman Problem](#) (C++)

- Implemented 3/2-approximate algorithm for metric Travelling Salesman Problem.

### [RPG game](#) (C#/Visual Studio)

- Designed and created an RPG game with simple graphical interface.
- Used design patterns to improve project structure.

## ACHIEVEMENTS

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### National Technological Initiative Olympiad | Unmanned aircraft systems

*top in team standings, individual prize-winner*

- Simulated and programmed(C++) a mathematical model of airplane flight.
- Launched an airplane model and reached 5% deviation from the perfect flight path.
- Beat 9 other teams by a large margin.

### "Phystech" Olympiad in Mathematics - *winner*

*March 2018*

*Moscow, Russia*

*Feb 2018*

## PERSONAL

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**Spoken languages**    English - B2, Russian - native, Tatar - native

## ACTIVITIES

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- Organized MIPT Olympiad for more than 100 schoolchildren.
- **Hach&Change hackathon:** solved the problem of placing self-pickup points using Voronoi diagram and ML.