GULNARA SUNGATULLINA

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EDUCATION

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 & Data Structures, C++, Computer Architecture & Operating Systems, Databases, Discrete Analysis, Algebra, Calculus, Probability, Differential Equations, Programming Technology.
Extra: Deep Learning School (ML basics, pytorch, optimizations, CV)

TECHNICAL STRENGTHS

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

PROJECTS

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

National Technological Initiative Olympiad | Unmanned aircraft systems *March 2018*
first in the team competition, individual prize-winner *Moscow, Russia*
- 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 landslide.

Olympiad of MIPT | Mathematics - *first degree diploma* *Feb 2018*

PERSONAL

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

ACTIVITIES

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