Anastasiia Isakova

Education

bachelor of maths and computer science, Saint Petersburg State University, St.Petersburg

AUGUST 2019 — PRESENT

Courses:

1. <u>Maths:</u>

- Algebra
- Mathematical analysis
- Discrete maths
- Theoretical informatics
- Mathematical logic in informatics
- Probability theory

2. <u>Программирование:</u>

- C/C++
- Algorithms & data structures
- Functional programming
- Kotlin
- Scala

Projects

Skillfactory

- **https://github.com/Anaiya798/Skillfactory**
- machine learning projects as a part of a large online course "Data Scientist Profession" from *Skillfactory*
- python, data science, ML, jupyter notebook, pandas, numpy, matplotlib, sklearn

Neural networks for concrete practical tasks

- **https://github.com/Anaiya798/Neural-networks-AI-university**
- training neural networks for a number of practical tasks using the *terra_ai* framework as part of a three-day online intensive from the University of Artificial Intelligence
- python, ML, neural networks, terra_ai, google colab

Chat-bot with artificial intelligence

- **https://github.com/Anaiya798/Chat-bot-with-AI**
- creating a Telegram bot using machine learning methods as part of a three-day intensive from *Skillbox* online university
- python, ML, Telegram bot, google colab, nltk, logistic regression, sklearn

Banking system

- **https://github.com/Anaiya798/Simple-banking-system**
- modeling of the banking system by means of Python
- python, ООП, random, secrets, базы данных, SQL, sqlite3, модульное тестирование

Inventory record

Details

St.Petersburg
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Links

https://github.com/Anaiya798

Technical Skills

Python

OOP

Git

Algorithms & data structures

C++

Linux

LaTeX

Adobe Photoshop

SQL

Data Science

ML

Bioinformatics algorithms & methods

Java

Kotlin

Scala

Languages

Russian (Native)

English (Upper-Intermediate)

German (Intermediate)

- **https://github.com/Anaiya798/Inventory-record**
- automation of the workplace of an accountant responsible for the warehouse
- Julia, базы данных, SQLite, file system, unit testing, logging

Simulating the operation of a railway station

- **https://github.com/Anaiya798/Railway-station**
- Java, OOP, file system, unit testing, logging

Universal genetic analyzer

- **https://github.com/Anaiya798/Universal-genetic-analyzer**
- an interactive application for determining various offspring characteristics based on data from parents
- school project
- C++ Builder, databases, Microsoft Access

CosmoLife: in search of life in the vastness of the Galaxy

- **https://github.com/Anaiya798/CosmoLife**
- an interactive database of potentially habitable planets in our Galaxy
- school project
- C++ Builder, file system, 3D modeling, 3ds Max

IDT: integration of people with hearing disabilities into modern society

- **https://github.com/Anaiya798/IDT**
- an interactive translator from sign language of different nations of the world
- school project
- C++ Builder, file system, dactyl alphabets, sign translation

Job experience

JetBrains Academy, St.Petersburg

JULY 2021 — PRESENT

Author of educational topics, developing a large online course in various areas of higher mathematics

Extra-curricular activities

Elective algorithmic course tutor, secondary school 207, St.Petersburg

SEPTEMBER 2019 — PRESENT

I teach pupils of grades 7-11 the basics of the C ++ language, prepare them for Olympiads in informatics and urban programming contests

Online courses

1. **Stepik:**

- "Molecular biology and genetics", Bioinformatics Institute
- "Molecular cell biology", Bioinformatics Institute
- "Introduction to molecular biology and biomedicine", MIPT
- "Introduction to Data Science and machine learning", Bioinformatics Institute
- "Introduction to Linux", Bioinformatics Institute

Achievements

Presentation of IT projects

1. *Project "Universal genetic analyzer"*

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2017 year - 3rd place in the city competition of technical modeling and design "From idea to implementation", St. Petersburg

- 2017 year - 2nd place at the XI open youth scientific and practical conference "The future of a strong Russia is in high technologies"
- 2017 year - diploma "For a creative approach to the creation of multimedia technologies" of the All-Russian competition of scientific and technical creativity "Young technicians of the XXI century"
- 2017 year - diploma "For the relevance of the topic of work" at the annual scientific and practical conference with international participation for schoolchildren of grades 7-11 "Science of the present and the future"

2. *Project "CosmoLife: in search of life in the vastness of the Galaxy"*

- 2018 year - 2nd place at the scientific-practical conference "Science of the present and the future" ("COSMODIS-LETI")
- 2018 year - 1st place in the city competition of technical modeling and design "From idea to implementation", St. Petersburg
- 2018 year - 3rd place at the V All-Russian Scientific and Innovative Conference "Discover a Scientist in You"
- 2018 year - diploma "For the development of software relevant to the educational process" at the XII open youth scientific and practical conference "The future of a strong Russia is in high technologies"

3. *Project "IDT: integration of people with hearing disabilities into modern society"*

- 2019 year - 1st place at the VI All-Russian Scientific and Innovative Conference "Discover a Scientist in You"
- 2019 year - 2nd place at the annual scientific and practical conference with international participation for schoolchildren of grades 7-11 "Science of the present and the future"
- 2019 year - 2nd place in the city competition of technical modeling and design "From idea to implementation", St. Petersburg

Olympiad movement for schools

- 2019 year - participant of the regional stage of the All-Russian Olympiad (informatics)
- 2018 year - victory at the M.V. Lomonosov (biology)
- 2018 year - winner of the regional stage of the All-Russian Olympiad (ecology)
- 2016 г. - finalist of the city Medical and Biological Olympiad

Personal scholarships

- 2020 г. - personal scholarship from JetBrains for academic achievement (2nd year, fall semester)