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TECHNICAL SKILLS

Technical Languages
- Python 3.12+
- C, C++
- Assembler
- Go

Algorithms
- Strings, Graphs, Dynamic Programming, Greedy Algorithms, Hash Tables, Search Trees, Sorting, Basic Data Structures

Other
- DevOps and infrastructure: CI/CD, Docker, Kubernetes Basics
- System design, UML, OOP
- Microservice architecture, HTTP / HTTPS
- FrontEnd: JavaScript, HTML, CSS, Postman
- Serialization: JSON
- Message Brokers: Kafka Basics
- Concurrency, Multiprocessing
- Jupyter Notebook, Google Colab, VSCode, Qt, Clion, Vim
- Git, Valgrind, AddressSanitizer, Linux, bash, gdb
- Testing Basics, Documentation
- Agile methodology
- Tools: Jira, Confluence, Notion

Libraries
- Python: Pandas, Transformers, Sklearn, Seaborn, Numpy, Scipy, Statsmodels, Polars, Matplotlib, PyTorch
- C++: STL,

ML
- ML Pipeline
- Data Visualization
- Optimization (Model parameters, Performance)
- ETL, Synthetic/Non-Synthetic Data generation, Feature engineering, Big Data
- Linear models,
- Anomaly Detection Basics
- Deep Learning
- Statistical Methods Basics

Languages
- English (C1), Russian (Native), Belarusian (Native)

EDUCATION

The National Research University Higher School of Economics, *B.S. Applied Mathematics and Informatics*   2022 - 2026
GPA-7.52
- <u>Data Science</u>: DS, ML, Statistics, Probability Theory,
- <u>Programming</u>: Concurrency, Multiprocessing, C++, Algorithms & Data Structures, Computer System Architecture & Compilers
- <u>Mathematics</u>: Discrete Analysis, Calculus, Algebra and Geometry, Computational Complexity, Combinatorics, Complex Analysis, Numerical Linear Algebra, Number Theory

Yandex School of Data Analysis   Python Course

PET PROJECTS

C++ Image Processor (Image Filters)   Feb 2023 — Mar 2023
Implementation a console application that allows you to apply various filters to images, similar to filters in popular graphic editors.

- link

C++ Implementation of Elliptic Curves   Jun 2023 — Aug 2023
Implementation of cryptographic protocols using Elliptic Curves

- link

C++ Smart Pointers   Oct 2023 — Nov 2023
Own implementation of smart pointers according to C++20. The code is well covered by tests, correct memory freeing and absence of leaks are checked. Efficient implementation is used UniquePtr stores self-written CompressedPair to use EBO.

- link

C/C++ My Shell   Feb 2024 — Mar 2024
C++ Shell Implementation

- link

C++ Neural Network From Scratch   Oct 2023 - May 2024
Course Project, related to the development of a framework for fully-connected neural networks in C++, also complemented by the possibility of working with CNN. Trained on the MNIST dataset.

Python Virtual Machine   Oct 2024
Project in Yandex School of Data Analysis. Implementation of a Virtual Machine that executes Python Bytecode.