

Yurchenko Vladimir

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EDUCATION

Moscow Institute of Physics and Technology (MIPT)

Spt 2022 - Present

Bachelor: Department of innovation and heights technology

Current GPA: 4.70(from 5)/3.70(from 4)

Courses: C++, Python, Techonlogy of Programming, Data Structures & Algorithms, Discrete Math, Linear Algebra, Calculus, Probability and theory of Measure, Data Analysis, Parallel Computing, Dirrferential Equation, Mathemaical Logic, Formal Language, Golang, Data Analysis, Databases, Methods of Optimization

SKILLS

Programming Languages: Python, C/C++, Golang

Tools & other skills: postgresql, ML, pandas/numpy/sklearn, Git/GitHub, Unix Shell, Bash, Docker, CMake

Languages: Russian, English(B1)

EXPERIENCE

Assistance 2024 Jan - 2024 Jun:

Assistant on the programming technology course in MIPT. During the work, I have been checking the practical tasks of junior year students in Bash, Git, Docker, CI-CD and etc, and also brought to fruition the students' projects.

SBER blockchain laboratory 2024 Jun - Present:

I am doing theoretical and applied cryptography.

PROJECTS

ML algorithms and data analysis | *Python*

2024

- A lot of standard algorithms: decision tree, SGD, PCA, kMeans, kNN, LLM, NeuralNetwork etc
- realisation some standard algorithm ML, for example decision tree, SGD, kNN, simple NeuralNetwork

Blind typing trainer | *Python*

2023

- Simple blind typing trainer on python
- The project have script for parsing text and realized interface for trainer and saving results

Deque | *C++*

2023

- STL realization std::dequeue with iterator and allocator.
- Realization have a lot of memory concept and move semantic. I used knowledge about tupe of iterator and type_traits.

Unordered map | *C++*

2023

- STL realization std::unordered_map with allocator and move semantic.
- Realization have a lot of memory concept and move semantic. I used std::forward, std::move etc.

Earley algorithm and LR(1)- algorithm | *C++, Git, Bash, CMake*

2023

- Algorithm for parsing context free grammar.

Other standard algorithm and data structure | *C++, Golang*

2022-2024

- data structure: list, queue, dequeue, stack, disjoin set union(DSU), sparse-table, heap, find tree
- Graph algorithm: BFS/DFS, Dijkstra, Ford-Balmen, Ford-Falkerson, Flويد
- String algorithm: prefix-function, Z-function, Aho-Korasik, suffix array, suffix avtomat, longest common prefix(LCP)