AKHMETOV RUSLAN

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PROJECTS

Bitonic Sort on GPU
📅 Nov 2022 – Dec 2022   📍 github
- A vectorized and super multi-threaded number sorter based on the bitonic sorting algorithm. Outperforms (-O3) CPU by 7 times

Completed Course in Algorithms on C++
📅 Jan 2022 – May 2022   📍 github
- Conditions and solutions to problems from the course, as well as many tests for them

Binary Translator
📅 Aprel 2020 – May 2020   📍 github
- Project (5K lines) translate the text format assembler to binary format in a wide range of x86 architecture instructions

Succinct on-disk algorithm (Graduate work)
📅 April 2023 – May 2023   📍 github
- Two data structures are explored, implemented and compared: String B-Tree and String B-Tree + Geometric Burrows-Wheeler Transform. Their difference is that the second is implemented on the basis of the first, but at the same time takes up less space due to compressed indexes. The results were obtained that the compressed structure takes up 4 times less space on the disk compared to a regular one, but works twice as long.

Archiver on GPU
📅 Mart 2020 – Mart 2020   📍 github
- Archives very quickly on the GPU

Calc integral in VLAN
📅 Sep 2021 – May 2022   📍 github
- The most interesting of the projects is the calculation of a definite integral on many computers in parallel. Tested in a local network on 8 computers with 8 threads

LuQulc
📅 Nov 2019 – Jan 2020   📍 github
- A quantum programming language that immediately executes

Robo arm on STM32
📅 Mart 2021 – May 2021   📍 github
- Stepper motor drivers and robot arm control code

Simple Graphic lib on DX11
📅 Nov 2020 – Jan 2021   📍 github
- A simple 2D graphic lib on 3D direct library

Printf on clear ASM
📅 Mart 2020 – Mart 2020   📍 github
- Pure assembler printf that recognizes insertion of string %s, binary format %b, octal: %o and hex %x
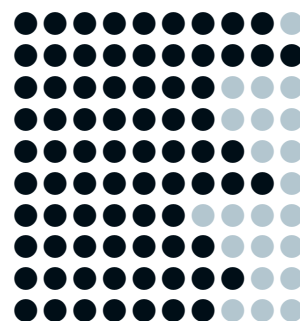
PROFESSIONAL SKILLS

Skill	Level
C++17	●●●●●●●●●○
C	●●●●●●●●●●
ASM	●●●●●●●○○○
Git	●●●●●●●○○○
Bash	●●●●●●●○○○
Algorithms	●●●●●●●●○○
LockFree Algo	●●●●●○○○○○
Multithreading	●●●●●●○○○○
Linux	●●●●●●●○○○
OpenCL	●●●●●●○○○○

STRENGTHS

- Development

  C++17   C17   OpenCL   ASM
  Bash   Python3   Java

- Libraries and Frameworks

  STL   googletest   OpenCL-CLHPP
  PyTorch   DirectX11   MPI
  LL (for STM32)

- Development Tools – IDE

  CLion   VS Code   Neo Vim
  Qt Creator   Visual Studio

WORK EXPERIENCE

Farvater, Middle C++ developer
📅 June 2022 - Sep 2023   📍 Moscow

Huawei, Junior C++ developer
📅 June 2021 - Sep 2021   📍 Moscow

EDUCATION

MIPT
📅 Sep 2019 - Bachelor   📍 Moscow

LANGUAGES

Language	Level
Russian	●●●●●●●●●●
English	●●●●●●○○○○

SOFTSKILLS

Responsibility   Team Work
Sociability   Professionalism
Learning Potential   Organization
Flexibility