

Anastasiy Belyaev

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EDUCATION

- Moscow Institute of Physics and Technology. #91 THE Computer Science** Moscow, Russia
Bachelor of Applied Mathematics and Computer Science. GPA: 4,84 / 5 Sep. 2019 - Aug. 2023 (Present)

WORK EXPERIENCE

Mail.ru Group

- SWE, Tarantool Core team* Moscow, Russia
Aug. 2021 - Present

C++ C lua SQL git CI Tarantool

Tarantool is an open-source in-memory computing platform used by the biggest tech companies in Russia (Mail.ru, Wildberries, Alfa-Bank, Mastercard, Beeline, etc.).

- Contribute to [Tarantool kernel](#)

Google Summer of Code, Tarantool

- SWE, Mail.ru Group Tarantool Core team* Moscow, Russia
May. 2021 - Aug. 2021

C++ C SQL CTest git Tarantool

Enhanced Tarantool [C++ connector](#), which is based on compile-time MsgPack encoder/decoder.

- Designed execute and prepare methods for dealing with SQL queries, using [iproto](#) binary protocol
- Implemented user authorization by editing the connection method and sending iproto authorization request
- Saved a month of work and avoided the implementation of futile optimization by doing profiling by learning Perf and Flame Graphs

Code and full information at the [link](#).

Mail.ru Group

- SWE Intern, Tarantool Core team* Moscow, Russia
Feb. 2021 - May. 2021

C++ C MsgPack CTest Tarantool

Created a [standalone application](#) for printing Tarantool's spaces using C connector.

- Designed methods to print objects of arbitrary nesting, stored in the spaces in MsgPuck format
- Implemented automatic library search by learning CMake
- Wrote unit tests for my program by learning CTest

VOLUNTEER EXPERIENCE

Moscow Institute of Physics and Technology

- Freshman mentor* Moscow, Russia
Sep. 2020 - Dec. 2020

Team work Communication Management

- Organized events for 300+ people
- Coordinated a group of 18 freshmen
- Organized team building activities for the group

PROJECTS

Graphic editor

- Moscow, Russia
Sep. 2020 - Dec. 2020

C++ OpenGL SFML

- Designed Event-Driven GUI library
- Created a graphic editor that supports plugins using the library
- Collaborated with groupmates to develop common plugins API

Programming language

- Moscow, Russia
Sep. 2019 - May. 2020

C C++ Assembly x86 ELF

Designed a compiler that processes my own C-like Turing-complete programming language into an executable file on x86 architecture.

- Implemented recursive descent parser to build an abstract syntax tree of my programs
- Designed syntax tree conversion to an executable file by learning Executable and Linkable Format and Intel instruction format

PROGRAMMING SKILLS

- Languages:** C, C++, Lua, Python, Assembly
- Technologies:** SQL, Git, OpenGL, SFML, CMake, Perf, Tarantool
- Knowledge:** Algorithms, Data Structures, Concurrent Computing