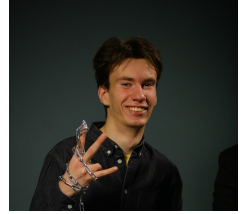


ROMAN GONCHARENKO

Junior GoLang Developer



Telegram: @Ropho

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Github: <https://github.com/Ropho>

EDUCATION

- Moscow Institute of Physics and Technology (MIPT)** Moscow, Russia
Bachelor of Department of Radio Engineering and Computer Technology (DREC) September 2021 - Present
- Kolmogorov's boarding school of Moscow State University (AESC MSU)** Moscow, Russia
science/maths class September 2019 - August 2021

EXPERIENCE

- ISP RAS** Moscow, Russia
Intern at Network department June 2022 - Present

Network GoLang Linux Docker NoSQL gRPC

 - Analyzed the principles of topology building in different IGP/EGP protocols (OSPF/BGP/ISIS).
 - Utilized docker containers in building and testing custom network configurations.
 - Developed a Golang module integrated it in a system:
 - * Wrote ISIS protocol parser using Gopacket.
 - * Built ISIS topology using parsed traffic.
- HUAWEI / ISP RAS** MIPT, Moscow, Russia
Student of training courses by Moscow compiler lab & Huawei (All projects are present on [Github](#)) August 2021 - May 2023

C++ System Design C Assembly

 - Learnt to build software architecture, develop industrial quality programmes.
 - Developed highly optimized industrial quality software modules using acquired high quality knowledge of system architecture, application of language features.

MAIN PROJECTS

- Streaming Video Website** MIPT, Moscow, Russia

GoLang Rest API SQL Docker Nginx Swagger

March 2023 - April 2023
Backend Pet project on building a video streaming website using modern stack of technologies.
- Simple Photoshop** MIPT, Moscow, Russia

C++ MVC Design Patterns SFML

April 2023
Pet project oriented on using design patterns in constructing apps.
Used Patterns: Composite, Command, Singleton, Abstract Factory
Program allows to draw, use given tools on a canvas.
- JIT compiler** MIPT, Moscow, Russia

C

May 2022
A JIT compiler which translates binary code from bytecode of custom soft-CPU
(a project that contains a resemblance of own [ASM-CPU](#)) into x86-64 architecture.
- Hash table analysis** MIPT, Moscow, Russia

C Assembly Graphviz Callgrind

April 2022
Analyzed 6 given hash functions with graphs and detailed description.
Optimized the work of a hash table using different kinds of optimizations such as inline functions, asm functions, intel intrinsics.
- Mandelbrot set optimization** MIPT, Moscow, Russia

C Assembly SFML

March 2022
Managed to construct a Mandelbrot set using a graphic library SFML.
Using SIMD instructions (AVX instructions) the project was optimized.

PROGRAMMING SKILLS

- **Languages:** GoLang, C++, C, Assembly
- **Graphic libraries:** QT, SFML
- **Technologies:** Linux, SQL, Docker, Git, L^AT_EX
- **Knowledge:** Algorithms, Data Structures, Network, Linux, Databases

OTHER

- **Environments of interest:** App development, Backend development, DevOps, Network
- **Languages:** English (Intermediate), Russian (native)
- **Personal traits:** Proactive, eager to ask questions, adaptable
- **Hobbies:** Workout, sports (football, volleyball, skiing), music (piano/guitar)