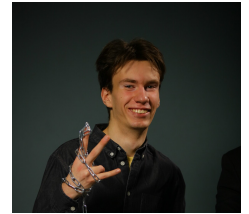


ROMAN GONCHARENKO

Junior GoLang Developer



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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

EXPERIENCE

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

GoLang gRPC REST Linux Docker SQL NoSQL Apache Kafka Network Technologies

 - Built and integrated a user authorization service into microservice system.
 - Utilized docker containers in building and testing custom network configurations.
 - Analyzed the principles of topology building in different IGP/EGP protocols (OSPF/BGP/ISIS).
 - 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.
 - For 2 years have been taking part in the mentorship program.
Reviewed code, explained principles of industrial programming and best practices.

MAIN PROJECTS

- Pirater - Streaming Video Website** MIPT, Moscow, Russia

GoLang Rest API SQL Docker Nginx Swagger

Backend Pet project on building a video streaming website using modern stack of technologies.
Pirater is A pretty Website with user authorization, video player based on HLS streaming.

Interesting Techonologies:

 - Docker:** conterization of all app's services (Mysql, backend servers, Webserver, Redis)
 - NGINX:** web server for load balancing multiple backend instances + serving static files
 - Redis:** session storage cache
 - Swagger:** API documentation

brief project presentation is present on [Github](#)
- Simple Photoshop** MIPT, Moscow, Russia

C++ MVC Design Patterns SFML

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

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

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

Managed to construct a Mandelbrot set using a graphic library SFML
Used SIMD instructions (AVX, AVX-2) to optimize the project

PROGRAMMING SKILLS

- **Languages:** GoLang, C++, C, Assembly
- **Technologies:** SQL (PostgreSQL, MySQL), NoSQL, Docker, K8S, Linux, Apache Kafka, Git
- **Graphic libraries:** SFML, QT
- **Knowledge:** Basic System design, Basic Algorithms and Data Structures, Network Technologies, Linux, Databases

OTHER

- **Environments of interest:** App development, Backend development, DevOps, Network technologies
- **Languages:** English (Intermediate), Russian (native)
- **Personal traits:** Proactive, eager to ask questions, adaptable
- **Hobbies:** Workout, sports