

MELNIKOV IGNAT

Trainee researcher, Student Developer, Programmer

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Dolgoprudny, Russia

github.com/Minerkow

EDUCATION

Moscow Institute of Physics and Technology

Sept. 2019 – Present

Dolgoprudny, Russia

- Bachelor of Applied Mathematics and Physics

Institute for Information Transmission Problems
of the Russian Academy of Sciences (Kharkevich
Institute)

June. 2021 – Present

Moscow, Russia

- Trainee researcher in the laboratory of Information technologies for the transmission, analysis and protection of information

TECHNICAL SKILLS

C/C++, Network Programming

Java, Android Development

Golang, Web development

Multithreaded Programming

Probability Theory

Linear algebra

Blockchain Basics

Cryptography Basics

Unix

Physics and theoretical mechanics

SOFTWARE SKILLS

- SQL Basics
- Linux OS, POSIX, System 5
- C/C++
- Python
- Java
- Golang
- TeX/LaTeX

SKILLS INTERESTS

Languages:

- Intermediate in English

Sports:

- Break Dance
- Skating
- Gymnastics
- Ride a motocross bike
- Alpine skiing and snowboarding

Interests:

- Decentralized Applications
- Telecom
- The mountains
- Physics

MOTIVATION

Now I mainly solve mathematical problems, and due to the smallness of our team, the code is not strictly structured and organized. I would like to get more experience in industrial programming. I am fascinated by complex databases such as blockchain, distributed hash tables, DAG networks, and there is a great motivation to study this further.

PROJECTS

P2PChat

In process

- Modern version of FireChat, building secure Mesh networks on the Android platform
- Java, Android Development

Parallel computation of integrals

- Parallel computation of the integral on several computers with a linear increase in speed with increasing cores on computers.
- C, Unix

Small analytical geometry library

- C++

ParaCL

- Your Turing complete programming language
- C++

Calculation of electrical circuits

- Calculation of electrical circuits.
- C++

AVL Tree

- C API for AVL Tree

Reddit clone

- Go

Layered Schedule for Information Bottle-neck

- ITAS, 2021
- C++

COURSES

- C and C++, Intel and MIPT
- C++, Yandex
- Unix, POSIX and System 5, Virtuozzo and MIPT
- Cryptography I, Stanford University
- Bitcoin and Cryptocurrency Technologies, Princeton University
- Telecom, Institute for Data Transmission Problems
- Telecom, Cisco and MIPT
- Developing web services in Golang, vk education