



Moscow, Russia · Remote / Ready to relocate

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## Summary.

I am a C++ developer, and open for remote job offers or with a relocation.

I'm passionate about software programming, building efficient solutions and architectures. I'm interested in algorithms, methods of optimization, mathematics, and also in Data Science.

My personal advantages: craving for fundamental knowledge, effective project management and problem-solving, flexibility and adaptability for new problems, easy communication for team work.

# Experience \_\_\_\_\_

**TrueConf** Moscow, Russia

C++ DEVELOPER Apr. 2022 - Present

- Develop and maintain server part of the TrueConf software.
- Improve and maintain inner chat features.
- Notable technologies used: [C++17], [FASTBuild], [GoogleTest].

**SoftBuilding** Saint Petersburg, Russia

C++ DEVELOPER

Sep. 2021 - Jan. 2022 • Develop and maintain software for internal use within the company.

- Finalize the pure C++ parsers with library for requests with multithreading for every target website.
- Develop the advanced Web Scraper written on TS, working on headless version of Chrome browser.
- Implement parsers and sub scrapers for new targeted websites.
- Notable technologies used: [C++20], [Node.JS], [TS], [.NET], [MS SQL].

**Freelance** Moscow, Russia

**FREELANCE** Nov. 2020 - Sep. 2021

Various C++ projects to order.

### Skills \_\_\_\_

**Programming** [C/C++20], [OOP], [Multithreaded programming], [POSIX API], [SQL (basics)]

Familiar with [Python], [TS], [.NET]

**Software & Tools** [Git], [Jupyter Notebook], [Jira Software], [Postman], [Fiddler]

Soft Skills Communication, Adaptability, Team Work, Problem-solving, Flexibility, Project management

**Languages** Russian (native), English (B2)

### **Publications**

#### **Deletion in Red-Black tree**

Understanding how does the deletion in Red-Black tree works.

Link: Habr/Deletion in RB-tree

Data structures, Algorithms

Link: PP189B/webserver21

# Selected projects \_\_\_\_\_

For more info about next projects, please visit GitHub pages by the links below.

webserver

C++98, Sockets, Multiplexing, OOP

• Solving multiplexing problem with low-level select function.

OWN IMPLEMENTATION OF WEBSERVER (LIKE NGINX) WITH CUSTOM CONFIGS

- HTTP/1.1 requests processing.
- Custom configurations of multiple servers.

APRIL 30, 2022 PAVEL KIRIN ft\_containers Link: PP189B/ft\_containers

REWRITING OF FOUR STL CONTAINERS + RED-BLACK TREE

C++98, STL, SFINAE, Data structures

- Own implementations of vector, stack, map, and set.
- Own implementation of Red-Black tree for map and set containers

minishell Link: LinearBasis/minishell

OWN IMPLEMENTATION OF SHELL WITH SYNTAX ANAYLYSIS, PARSING, AND IPC

- Readline library for interactive I/O.
- Syntax analyzer for input values.
- Supporting pipes, redirections, and heredoc

miniRT

MINI RAY-TRACING PROJECT

- Custom scene file format.
- Supported: sphere, plane, square, triangle, and cylinder.
- See screenshots at the project page!

Link: PP189B/miniRT

C, POSIX API, IPC

C, Linear algebra, Multithreading

## **Education**

### École 42 / School 21

Paris, France / Moscow, Russia

STUDENT

Aug. 2020 - Present

- Programmer courses with peer-to-peer system between students. There I learned much about the culture of programming, trained on complex projects.
- For now, I'm doing the Data Science projects branch.
- Improved skills: [C/C++], [STL], [Object-oriented programming], [POSIX API], [Multithreaded programming], [IPC], [Algorithms and optimizations], [Linux], [Git], [Documentation]

#### **Moscow Aviation institute**

Moscow, Russia

BACHELOR'S DEGREE Sep. 2019 - Jan. 2022

### **Hobbies**

- Guitar
- Photography
- Painting
- Writing