

CONTACTS

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COURSES

C/C++ PROGRAMMING

LINUX KERNEL, OPERATING SYSTEMS

ELECTRICAL CURCUITS, SIGNALS

RESEARCH PHYSICS LAB WORKS

CALCULUS, DIFFERENTIAL EQUATIONS

LINEAR ALGEBRA

DISCRETE ANALYSIS, GRAPH THEORY

ACADEMIC ENGLISH B2/C1

HARD SKILLS

- Strong Analytical Skills
- C/C++/Python
- Git
- CMake, Make
- Linux shell
- Data structures
- Algorithms
- Concurrency, asynchronous programming

Aleksei Alekseev

Third grade MIPT student

ABOUT ME:

- Initiative and hard working student.
- Keen on solving challenging problems.
- Responsible and result focused.
- Comunicative and stress tolerant.
- Curios about studying and becoming a professional one day.

EMPLOYMENT HISTORY:

Huawei Russian Research Institute (01.07.23 - Current Time)

Our team is working on investigation and implementation of new approaches in dynamic workloads scheduling on heterogenous ARM architectures to plummet power consumption and increase devices' performance.

PROJECTS:

OTCP CHAT

Link: https://github.com/alexxRT/Odnokursniki

It is small network tcp chat. It has private dialog windows and offline/online statuses. For client/server interaction **libuv** was used. It provides asynchronous and networking facilities. For simple **GUI** I implemented small library **ncurses**.

ULIST

Link: https://github.com/alexxRT/List

Easy to use, self-written data structure with all essential **find()**, **insert()**, **delete()** functions. It's smartly resizable and cache friendly.

SOFT CPU

Link: https://github.com/alexxRT/CPU

It consists of two parts: assembler and CPU. Assembler reads commands from input file and translate them into binary representation. Assembler is based on **file read**, **tokenization** and **recursive decent** and can report syntax errors on assembling. CPU simply executes binary code.

STACK

Link: https://github.com/alexxRT/Stack

The simplest self-written data structure. Protect instruments were implemented, such as **hashing**, **canaries** and **validation**.

COOLING DROPLET RESEARCH

Link: https://github.com/alexxRT/PhysicsProjects

I investigated dependency between droplet's temperature and its falling height. As a result, I delivered my presentation to a group of physicits in scientific English language.