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CONTACT

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COURSES

- **ILAB C PROGRAMMING**
- **RESEARCH PHYSICS LAB WORKS**
- **COMPUTER SCIENCE**
- **CALCULUS**
- **LINEAR ALGEBRA**
- **DISCRET MATHEMATICS**
- **PROBABILITY THEORY**
- **ACADEMIC ENGLISH B2/C1**

DIGITAL SKILLS

- C/C++
- Git
- CMake, Make
- Linux shell
- Data structures
- Algorithms
- IPC technics
- Concurrency, asynchronous programming

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.**

PROJECTS:

SPOTIVAR

Link: https://github.com/alexpaniman/spotivar

Our team of three students is currently working on the open source, desktop, GUI application for **playing**, **storing** and **sharing** users music files. Our goal is to provide easy-to-access interface for domestic music library and an ability to extend it with our remotely storing tracks.

ODNOKURSNIKI

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

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

LIST

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

Easy to use, self-written data structure with all essential **find()**, **add()**, **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 compilation. 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.