

# ERMOLAEVA VARVARA DMITRIEVNA

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## C/C++ developer

### EDUCATION AND COURSES

Moscow Institute of Physics and Technologies, second year bachelor student,  
Dedinsky32 1sem

**LANGUAGES:** C, C++, Python

**SOFTWARE/TOOLS:** Cmake, Make, Git, Linux, lldb, VS code, vim,  
doxygen

**LIBRARIES:** OpenAL, SFML, Graphviz

**ADDITIONAL SKILLS:** English(B1), Russian(native),  
effective web searching, music encoding/decoding

**KNOWLEDGE:** Basic algorithms, data structures

### PROJECT EXAMPLES and points of development

**SIMPLE CPU (C)** - Simple processor model. Pseudo assembler syntax  
with code generation, tokenization, assembly.

<https://github.com/tsatsulya/Proc>

**MIRITH (C++, in progress)** - algorithm for determining the correlation  
between two tracks, player, a system for organizing and storing /  
hashing files, the decoding of metadata of music files in various  
formats (mp3, flac, monkey, ogg, wav).

<https://github.com/alexpaniman/spotivar>

...And other projects from DED32 course (here are some interesting):

[https://github.com/tsatsulya/Linked\\_list](https://github.com/tsatsulya/Linked_list)

[https://github.com/tsatsulya/Stack\\_ver1](https://github.com/tsatsulya/Stack_ver1)

**SPHERE OF INTERESTS:** Optimization algorithms, compilers and formal  
language theory, backend development, DevOps

