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Matvey Mukhorin

EDUCATION

Bachelor of Applied Physics and Math
Moscow Institute of Physics and Technologies
Main courses:

September 2021 - August 2025

- Compilers, Computer Architecture and Assembly, OS, C++
- Linear Algebra, Mathematical analysis
- Physics, Theoretical mechanics

WORK EXPERIENCE

Software Engineer
ISP RAS, OS lab

July 2022 - August 2022
Moscow, Russia

- Developed and embedded pool allocator in RTOS JetOS.

PROJECTS

Paint from scratch

- Built simple graphics editor from scratch (Patterns, C++, Make, SFML)
<https://github.com/matmuher/cherchuha>

New Years postcards constructor

- Developed markup language for postcards and modulo that processes it (Teamwork, C++, Make)
https://github.com/matmuher/QR_postcards

Rasterizer from scratch

- I am developing a software rasterizer (C++, CMake, SFML):
https://github.com/matmuher/ma_rasterizer

Hash functions analyze and optimization

- Analyzed performance of 5 hash functions and optimized hotspots using SIMD and assembly (C, Python, Callgrind)
https://github.com/matmuher/hash_table_optimize

Toy programming language series

- Built toy programming language that compiles to ISA of my virtual machine (C, CodeBlocks)
https://github.com/matmuher/ma_lang
- Created JIT binary translator that translates binaries from my virtual machine ISA to native one (C, CodeBlocks)
<https://github.com/matmuher/JIT-translator>

Log Daemon

- Built logger that can work in daemon mode (C, POSIX API, Bash)
https://github.com/matmuher/3_sem_22_23/tree/main/task6/LogDaemon

SKILLS

Programming C, C++, Python, Git, Make, CMake, L^AT_EX, Markdown

Communication Russian (native), English (intermediate), Spanish (beginner)