

Vladimir Vekhov

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EDUCATION

Moscow Institute of Physics and Technology (MIPT)

Bachelor's Degree in Applied Mathematics and Physics

GPA: 7.4 / 10

Moscow, Russia

2023 – 2027

Core Courses:

Mathematical Analysis, Linear Algebra, Computer Science, Physics

EXPERIENCE

ISP RAS

Compiler technology department. Wrote sigbox algorithm of auto signature generation

Learned internet protocols.

July – August 2024

Tarantool VK

Write pagination support for rtree index in kernel.

November 2024 – April 2025

PROJECTS

My Football Programming Language | C, Recursive Descent Parser, CPU Simulator

- Created a programming language using recursive descent parsing.
- Built a compiler supporting tokenization, abstract syntax tree creation, and assembly.

Game Shooter | C++, SFML, Sockets, threads

- Top-down shooter - simple video game with client-server api and game engine on SFML.

Differentiator | C, Binary Tree, Graphviz

- Developed a tool for differentiating and simplifying mathematical expressions.
- Implemented a graphical tree representation using Graphviz.

Intersection of triangles | C++, BVH tree, Cmake, CI

- This program detects intersections between triangles in 3D space.
- Implemented a BVH tree for optimisation.

My Processor, RVI32 Processor | C, C++, ISA

- Created a processor and assembler supporting stack, RAM, and registers.
- 2 types: stack-based CPU with my own instructions and RVI32 simulator CPU

Data Compression | C, LZW

- Implemented LZW algorithm for lossless compression and decompression with dictionary support.

Client-server application | Python, Wireshark

- Simple client-server application with tcp and udp transport protocols.

ABOUT ME

- Know C, C++, python, Internet protocols, Linux, Risc-V, OOP
- Interested in system programming, backend development, and cybersecurity. Aspiring to learn ML.
- Passed C, C++, RISC-V and Compiler courses.
- Programming Mentor of the I. Dedinsky C course.
- Participated in Physics Olympiads, became a prize-winner in Rosatom, Kurchatov, Spb olympiad events. Love science.
- Strong teamwork and brainstorming skills developed through group projects.
- Hobbies: football, running, reading, guitar.