



Vladimir Vekhov

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EDUCATION

Moscow Institute of Physics and Technology (MIPT)

Bachelor's Degree in Applied Mathematics and Physics

GPA: 7.5 / 10

Moscow, Russia

2023 – 2027

Core Courses:

Mathematical Analysis, Linear Algebra, Programming, Physics

EXPERIENCE

ISP RAS

Compiler technology department. write sigbox algorithm of auto signature generation

Learned internet protocols

July – August 2024

Tarantool VK

Write pagination support for rtree index

November 2024 – Now

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.

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*

- Developed a game that guesses the user's thought by asking questions.
- Implemented a self-updating database for new objects.

My Processor, RVI32 Processor | *C, C++*

- 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, Make*

- 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

- Interested in system programming, backend development, and cybersecurity. Aspiring to learn ML.
- Participated in Physics Olympiads, becoming a prize-winner in Rosatom and Kurchatov events. Love science
- Strong teamwork and brainstorming skills developed through group projects.