AMADEY VORONTSOV

DREC MIPT Student, C++ developer

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LANGUAGES

- Russian (native speaker).
- English.

PROJECTS

Intersection of triangles with Vulkan

Konstatntin Vladimirov course project

2-nd course

- This is a C++ program that determines the intersection of triangles in 3D.
- For visualization I used Vulkan-Hpp.

Bitonic sort in OpenCL

Konstantin Vladimirov course project

2-nd course

• My implementation of bitonic sorting on the GPU is many times faster than std::sort().

ParaCL Language (in process)

Konstantin Vladimirov course project

2-nd course

It is a language with flex and bizon frontend and llvm backend.

LLVM pass

Sergey Lisitsin course project

2-nd course

 My pass that collects static and dynamic information about the program and gives a graph with information

Ray-Tracer

Ilya Dedinsky course project

2-nd course

- Ray tracer calculates the path of the rays and gives the output image.
- The second stage is the GUI, which allows you to conveniently infuse the scene (something like Zemax).

Compiller

Ilya Dedinsky course project

1-nd course

 This is a compiler from my own language to a binary format x86-64 architecture.

EDUCATION

Moscow Institute Physix and Technologies

Bachelor degree

2021 - Present

SKILLS



COURSEWORK

- Huawei course by Ilya Dedinsky
- iLab course by Konstantin Vladimirov
- Algorithms and Data Strucrures by Sergey Babichev
- LLVM course by Sergey Lisitsin
- Computer Technologies

QUALITIES

- Willingness to learn.
- · Responsibility.
- Self-Motivaion
- Stress Resistance.
- Willingness to spend a lot of time to get things done.

ACHIEVEMENTS

- 9.125 GPA in all courses last semester
- 10.0 GPA in math courses last semester.

The compiler also gives a dump in the form of an assembler listing of nasm.
 Differenciator
 Ilya Dedinsky course project

1-nd course

• The program parses a file with any function and gives the steps for taking the derivative in a TEX file.

Akinator

Ilya Dedinsky course project

1-nd course

- The program uses a binary tree to guess the given character.
- There is voice output and music.

Miptgramm (in process)

Own project

2-nd course

- This is a final computer science project written on the Flutter framework.
- A cross-platform social network with a microservice architecture adapted to the "needs" of physics, using a server, nosql database and postgres.
- The client part is written in the object-oriented language dart, the server part in python. Interaction via json.