Dragun Konstantin

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EDUCATION

Moscow Institute of Physics and Technology Moscow, Russia
Bachelor of Applied Mathematics and Computer Science; 8.49/10 *Sep. 2019 – Aug. 2023*

The Advanced Educational Scientific Center (AESC MSU) Moscow, Russia
Graduated from one of the finest high shool in Russia with a gold medal *Sep. 2017 – Aug. 2019*

EXPERIENCE

Huawei, Moscow Compiler Laboratory Moscow, Russia
Junior Engineer *Jul 2021 - Present*
C C++ Assembly x86-64 ARMv8 RiscV

- **RiscV backend**: Implemented a RiscV backend of the binary translator.
- **Testing implementation**: Made support of the existing tests of signal handling to the implemented RiscV backend.
- **Frontend Improvement**: Improved the existing way of generation IR instructions of floating point instructions.

PROJECTS

Graphic editor Sep. 2020 – Dec. 2020
C++ SFML OpenGL
Implemented a high-level graphic library, which can use any graphic library inside (now it supports OpenGL and SFML). Developed a graphic editor using my library.

Programming Language Feb. 2020 – Jun. 2020
C C++ Assembly Graphviz
Developed a Turing complete programming language – New Roman Language with translation to x86 Assembly.

Alpha-Blending Mar. 2020 – Apr. 2020
C C++ Assembly x86-64 SIMD
Alpha-Blending program overlaying pictures, managing alpha channel. The program is optimized with SSE instructions.

Differentiator Oct. 2019 – Nov. 2019
C C++ LaTex
Implemented a differentiator program, which allows to calculate derivatives, simplificate expressions, and write down the results with intermediate steps in LaTex format.

PROGRAMMING SKILLS

- **Languages**: C/C++, x86-64/ARM Assembly, Python.
- **Technologies**: SQL, Git, LaTeX.
- **Knowledge**: Algorithms, Data Structures, Concurrent Computing, Distributed Systems, Computer Networks, Machine Learning, Deep Learning.

VOLUNTEER EXPERIENCE

ICPC World Finals Moscow, Russia
Chief volunteer *Sep. 2021 – Oct. 2021*
Participated in the ICPC World Finals as the head of MIPT volunteers.

AIESEC Moscow, Russia
Manager *Sep. 2021 – Dec. 2021*
Helped people to find international internships.