

# Dragun Konstantin

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## EDUCATION

- **Moscow Institute of Physics and Technology** Moscow, Russia  
*Bachelor of Applied Mathematics and Computer Science; cGPA: 4.84 (5.0 is max)* Sep. 2019 – Aug. 2023
- **The Advanced Educational Scientific Center (AESC MSU)** Moscow, Russia  
*Graduated from one of the finest high school 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, simplify expressions, and write down the results with intermediate steps in LaTeX format.

## SKILLS

- **Programming Languages:** C/C++, x86-64/ARM Assembly, Python.
- **Technologies:** SQL, Git,  $\text{\LaTeX}$ .
- **Knowledge:** Algorithms, Data Structures, Concurrent Computing, Distributed Systems, Computer Networks, Machine Learning, Deep Learning.
- **Languages:** Russian(native), English(B2), German(B1).

## 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.