



**Valiev Ruzal**

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📄 GitHub Profile

## EDUCATION

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• **Moscow Institute of Physics and Technology**

*BSc - Applied Mathematics and Physics 2nd year*

*Present*

GPA: 7.55/10

## PERSONAL PROJECTS

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• **CPU Emulator**

*A program that simulates operation of a Turing-complete processor capable to execute programs written in its own assembly language. It contains registers, stack and RAM (also used as a video memory). Assembly language supports labels, procedures and all command set of virtual machine's CPU.*

– Languages: C

• **Differentiator**

*Project for differentiating expressions, plotting a function, tangent, Taylor series. Working with LaTeX, python graphics.*

– Languages: C

• **RapLang**

*RapLang - Turing-complete language that translates code into my Assembler.*

– Languages: C

• **CrackMe**

*Simple Crackme that uses buffer overflow. The project has a simple GUI.*

– Languages: C, Assembly x86

## SKILLS

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**Programming languages:** C, C++, Assembly x86, Python

**Tools:** Git, Latex, GraphViz, TxLib, Gdb, IDA, Qt5 (Python), Turbo Debugger

**Programming courses passed:**

- Industrial programming and Compiler technics (1 semester).
- Computer architecture and Assembly languages (at the moment of CV writing passed 50%).
- Algorithms and Data Structures (1 semester).
- Python (2 semesters).
- C++ (1 semester).

**Languages:** Russian (native), English (B1), Tatar (native)

**Soft skills:** activity, curiosity, responsible, desire to learn