

Aleksander Morozov

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About me

- I started getting involved in programming since high school, developing simple custom websites using Django. At MIPT, I delved into compiler technologies and C++ development. For the last year I have been working on the dynamic analysis tool "Crusher", at the junction of dynamic and static code analysis. My work included R&D and presentations at a scientific conferences.

Career

- **Institute of System Programming of the RAS** (June 2023 to April 2024)
Department of Dynamic code Analysis. Design of the "Crusher" fuzzer, development of fuzzing optimization methods.

Education

- **Bachelor** (2022-2026)
MIPT DREC
- **Educational courses**
I.R. Dedinsky's course "Introduction to Computer System emulation, compiler technologies and industrial programming"
Carnegie Mellon University course: Intro to Database Systems

Skills

- **Programming languages, libraries and frameworks**
C/C++, Nasm, LLVM IR, Clang Static Analyzer
Python (Matplotlib, Numpy, Django)
SQL
Javascript (jQuery)
- **Foreign languages**
English B2+
- **Other skills**
Bash, Git, Unix, GDB, Docker, Make, Latex
Algorithms and data structures

Projects

- **Binary Translator**
github.com/dodokek/BinaryTranslator
- **Programming language with its own AST standard**
github.com/dodokek/ProgrammingLanguage

- **Optimizing the search for elements in the Hash table**
github.com/dodokek/Hash-Table
- **A derivative calculator with a step-by-step solution**
github.com/dodokek/Derivative-Calculator

Other information

- Citizenship - Russian Federation
- Permanent place of residence - Moscow
- Driver's license of category B