MOROZOV MAKSIM

Software Engineer — Virtual Machines & Dev Tools Specialist

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SUMMARY

Software Engineer with 4+ years of experience specializing in Virtual Machine development and Developer Tools. Contributed to new programming language release at Huawei.

WORK EXPERIENCE

HUAWEI, R&D, OS Lab, Moscow

Junior Software Engineer — *January 2024 - precent*
Developer Tools team of ArkVM project — *Moscow, Russia*

- Improved the TypeScript compiler for DevEco IDE, increasing build speed by 10% and linting speed by 20%.

- Developed a linter for ArkTS language using the TypeScript compiler, integrating automated error detection and autofix capabilities.

- Developed key components of the ArkTS language standard library to improve JavaScript interoperability.

HUAWEI, R&D, OS Lab, Moscow

Software Engineer Intern — *July 2020 - December 2023*
Developer Tools team of ArkVM project — *Moscow, Russia*

- Designed and implemented a sampling profiler for a multilingual virtual machine, supporting x86 and ARM for efficient performance analysis and optimization.

- Developed the Foreign Function Interface (FFI) for ArkTS, enabling VM interaction with external C/C++ libraries through native API and intrinsic functions.

- Developed a syntax highlighting tool for the ArkTS language in Visual Studio Code, improving code readability.

EDUCATION

Harbour.Space University — *2024 - Present*
MS Degree / Exchange student — Barcelona
Faculty of Computer Science

Higher School of Economics — *2023 - Present*
No. 2 Russian university according to Forbes 2024 ranking — GPA: 4.81/5
MS Degree — Moscow
Faculty of Computer Science
Institute for System Programming RAS Department

Moscow Institute of Physics and Technology — *2018 - 2022*
No. 1 Russian university by CS according to THE 2022 ranking — GPA: 4.88/5
BS Degree — Moscow
Faculty of Radio Engineering and Cybernetics
Department of Microprocessor Technologies

SKILLS

Core Expertise
Virtual Machines, Tooling, Language Interoperability, Compiler Optimization

Programming languages
C/C++, TypeScript, Python

Frameworks and Tools
GoogleTest, CMake, Jenkins, LLVM

Professional skills
Language Virtual Machines, Tools, Compilers, Git, CI/CD

Languages
English, Russian