Ilya Balashov

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Education

Saint Petersburg State University − Faculty of Math and Mechanics　　Sep. 2017 − Jul. 2021

BSc, Software and Administration of Information Systems, GPA 4.91/5.00　　*Saint Petersburg, Russia*

Experience

Research Intern, JetBrains Research　　Oct. 2019 − Apr. 2021

Partial evaluation research in Programming Languages and Tools lab　　*Saint Petersburg, Russia*

- Implemented experiments on partial evaluation (C++, CUDA/OpenCL, custom DSLs and LLVM IR)
- Developed benchmarks on graph algorithms performance (SuiteSparse GraphBLAS)
- Modified Clang slightly for partial evaluation framework support
- Finishing a bachelor thesis "Partial Evaluation Of Linear Algebra Algorithms" and a paper for SYRCoSE

Projects

TRIK Gamepad Android application modification　　Jun. 2019 − Aug. 2019

Google Play (Beta branch)

- Implemented several new screens and remade networking code
- Covered code with different types of tests
- Connected with Circle CI
- My code was integrated into the production TRIK Gamepad code

Testing system for TRIK robots programs　　Feb. 2019 − Jun. 2019

Github

- Connected TRIK robot simulator with Travis CI
- Implemented an ability to use simulator as a cloud-based testing system
- The system was lately applied for different TRIK tools testing

Google Drive integration plugin for REAL.NET visual programming environment　　Sep. 2018 − Dec. 2018

Github

- Implemented .NET-based plugin with a file manager functionality
- Connected the plugin with Google Drive
- The plugin received positive reviews from polled fellow students

Skills

Programming Languages and Technologies:

- C/C++, SQL, Git (medium)
- Python, Linux, Docker, CUDA/OpenCL, Java/Kotlin, .NET stack (some experience)
- Haskell, LLVM, x86 (familiarity)

Languages:

- Russian (native)
- English (B2, Upper Intermediate)