

Ilya Balashov

Software Engineer

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Education

Saint Petersburg State University – Faculty of Math and Mechanics

BSc, major in Computer Science and Software, GPA 4.96/5.00, with honors

Second most recognized university in Russia, in top 250 of the QS world ranking

Activities: volunteer of the faculty student council, Freshmen Buddy program activist

Sep. 2017 – Jul. 2021

Saint Petersburg, Russia

Experience

Software Engineer, Itiviti, a Broadridge Business

High Availability team, Tbricks platform

- Implemented a platform log analysis tool; 30+ major bugs were found using the tool
- Developed platform configuration exporting app;
The app was deployed to a number of major clients, including top-tier investment banks
- Created Nagios configuration distribution tool between different nodes;
Integrated the tool into existing administration and distribution infrastructure

May 2021 – present

Saint Petersburg, Russia

Researcher, JetBrains Research

Partial evaluation research in Programming Languages and Tools lab

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

Oct. 2019 – Jun. 2021

Saint Petersburg, Russia

Noticable Projects

TRIK Gamepad Android application modification

Google Play

- 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

Jun. 2019 – Aug. 2019

Testing system for TRIK robots programs

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

Feb. 2019 – Jun. 2019

Google Drive integration plugin for REAL.NET visual programming environment

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

Sep. 2018 – Dec. 2018

Skills

Programming Languages and Technologies:

- C++17, Boost, C, SQL, Git, Linux, Python (industrial experience)
- Docker, CUDA/OpenCL, Java/Kotlin, .NET stack (some experience)
- Haskell, LLVM, x86 (familiarity)

Languages:

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