Ilya Balashov
Software Engineer

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Education

Saint Petersburg State University – Faculty of Math and Mechanics Sep. 2017 – Jul. 2021
BSc, major in Computer Science and Software, GPA 4.96/5.00, with honors *Saint Petersburg, Russia*
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

Experience

Software Engineer, Itiviti, a Broadridge Business May 2021 – present
High Availability team, Tbricks platform *Saint Petersburg, Russia*
- 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

Researcher, JetBrains Research Oct. 2019 – Jun. 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)
- Sketched a Clang modification for partial evaluation framework support
- Finished bachelor thesis "Partial Evaluation Of Linear Algebra Algorithms" and a paper for SYRCoSE

Noticable Projects

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

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++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)