

Ilya Balashov

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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 onboarding activist

Experience

Software Engineer, Itiviti, a Broadridge Business

May 2021 – present

High Availability team, Tbricks platform

Saint Petersburg, Russia

- **Created** Nagios configuration distribution tool between different nodes;
Integrated the tool into existing administration and distribution infrastructure
- **Integrated** HashiCorp Consul instead of a legacy in-house service discovery solution;
The integration was dispatched to several setups with 20+ nodes distributed geographically
- **Developed and maintained** platform configuration exporting app;
The app was deployed to a number of major clients, including **top-tier investment banks**;
Led a group of two interns (SWE and manual QA), interacted with Product Managers and Support
- Keywords: FinTech/HFT, C++17, Python, GTest, Bash, Perl, profiling, Consul, REST

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
- Keywords: Research, C++, Python, GTest/GBenchmark, Git, LLVM, Docker, SQL

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
- Set up Continuous Integration 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. The setup was later used for integration testing
- 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 REST API
- The plugin received positive reviews from polled fellow students

Skills

Programming Languages and Technologies:

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

Languages:

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