

# 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

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## Experience

**Software Engineer, Itiviti, a Broadridge Business**

May 2021 – present

*High Availability team, Tbricks platform*

*Saint Petersburg, Russia*

- **Created and integrated** Nagios configuration distribution tool between different nodes
- **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 program partial evaluation; reported the results on several talks
- **Developed** benchmarks on graph algorithms performance (SuiteSparse GraphBLAS)
- **Sketched** a Clang modification for partial evaluation framework support
- Keywords: Research, C++, Python, GTest/GBenchmark, Git, LLVM, Docker, SQL

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## 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 Circle CI

**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
- The system was lately applied for different TRIK tools testing

**Google Drive plugin for a visual programming environment**

Sep. 2018 – Dec. 2018

*Github*

- Implemented a .NET-based file manager using Google Drive REST API
- The plugin received positive reviews from polled fellow students

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## 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**

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