

# Ilya Balashov

GitHub  
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## Education

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### Saint Petersburg State University – Faculty of Math and Mechanics

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

Sep. 2017 – Jul. 2021

*Saint Petersburg, Russia*

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## Experience

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### Research Intern, JetBrains Research

*Partial evaluation research in Programming Languages and Tools lab*

Oct. 2019 – Apr. 2021

*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

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## Projects

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### TRIK Gamepad Android application modification

*Google Play (Beta branch)*

Jun. 2019 – Aug. 2019

- Implemented several new screens and remade networking code
- Covered code with different types of tests
- Connected with Circle CI

### Testing system for TRIK robots programs

*Github*

Feb. 2019 – Jun. 2019

- Connected TRIK robot simulator with Travis CI
- Implemented an ability to use simulator as a cloud-based testing system

### Google Drive integration plugin for REAL.NET visual programming environment

*Github*

Sep. 2018 – Dec. 2018

- Implemented .NET-based plugin with a file manager functionality
- Connected the plugin with Google Drive

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## Skills

**Programming Languages and Technologies:** C/C++, SQL, Git (medium), Linux, Python, Docker, CUDA/OpenCL (some experience), familiarity with Java/Kotlin, Haskell, .NET stack

**Languages:** Russian (native), English (B2, Upper Intermediate)