

ARTYOM FARTYGIN

Software Engineer

✉ fartygin.a@phystech.edu

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🌐 Artyom Fartygin

📍 Russia, Moscow

EXPERIENCE

Laboratory Assistant Java

 **Institute for System Programming of the RAS – Compiler Technology Department**

📅 October 2022 – present

🔗 [Svace](#)

- Developed a protection system for the distribution of our product using physical keys, which **significantly speeded up the analysis of large projects** (release-3.4.240516);
- Wrote a detailed article on Habr [about loading classes in Java 8 and Java 9+](#);
- Developed **6** insecure code detectors for Samsung's main static analyzer – **Svace**. Developments are included in the release-3.3.2.

Assistant Engineer C++

 **Huawei – System Engineering Lab**

📅 Summer Internship 2022

🔗 [Huawei RRI](#)

- Developed **3** inefficient code detectors (**Static Analysis**). Two of them analyze **LLVM IR** and look for idioms (**Idiom Detection**). All the programs are used in the company.

PROJECTS

StudOko Kotlin

Web-application for the ATP department at MIPT

📅 February 2024 – present

- I **lead team** of 4 students from DAMI MIPT using Scrum;
- The project is at the MVP development stage;
- Will allow teachers to register courses and post homework assignments, and students – to subscribe to courses and get the necessary access to **GitLab** and **MIPT server cluster**;
- Technologies: Ktor, React.js, PostgreSQL, Docker, Gradle.

SQL to CypherQL Converter C++

Open-Source project – A tool for translating queries when migrating from RDBMS to GDBMS

📅 February 2022 – present

🔗 [sql2cypher](#)

- Translation of queries in SQL language (Microsoft SQL Server) into Cypher language (Neo4j);
- The tool already allows to translate simple DDL and DML queries;
- An architecture has been implemented to expand the translated grammar;
- Technologies: C++, CMake, GoogleTest, GitHub Actions, graphviz.

EDUCATION

🎓 University Degree

MIPT, Bachelor

📅 September 2020 – July 2024

Graduated from the department of applied mathematics and informatics.

SKILLS

Development languages

- Java – commercial development
- Kotlin – web-applications with Ktor
- C++ – standard library and some LLVM
- C – standard, POSIX и MPI libraries.
- Groovy – Gradle build scripts with custom gradle tasks and plugins; Jenkins Pipelines
- Python – scripts and automated Web UI-testing via Selenium WebDriver (PyTest, unittest)

Had work experience

- JVM – bytecode editing using ASM, modules system and classloading
- SQL – Microsoft SQLS PostgresQL
- Cypher – Neo4j (graph DBMS)
- CMake Make – cross-platform compilation of C, C++ and LaTeX projects
- LLVM – analyzing passes for **LLVM Opt**, comprehension of most **LLVM IR** instructions
- Ruby – basic knowledge and creation of simple Web applications via Ruby on Rails

LANGUAGES

- English – Intermediate