ARTYOM FARTYGIN

Software Engineer

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EXPERIENCE

Laboratory Assistant `Java`

Institute for System Programming of the RAS – Compiler Technology Department

📅 October 2022 – present   🔗 Svace

- I am developing now a security system for the distribution of our product using physical keys;
- 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.

Backend Developer `Ruby on Rails`

LLC «TeleProvodnik»

📅 3 months   🔗 TeleProvodnik

- Modernized an outdated geoportal which was developed **10** years ago. I updated the language and framework versions to modern ones, restored API services.

PROJECTS

StudOko `Kotlin`

Web-application for the ATP department at MIPT

📅 March 2023 – present

- Project under development MVP;
- 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: Kotlin, Ktor, PostgresQL, Docker, Gradle.

SQL to CypherQL Converter `C++`

Open-Source project – Data Migration Tool

📅 February 2022 – present   sql2cypher

- Microsoft SQL queries translation into CypherQL language;
- Technologies: git-flow, GoogleTest, Doxygen, CI, graphviz, CMake;
- Implemented configuration and logging of the application, queries syntax analyzer, also, query translator;
- The tool already allows you to translate simple schemes, and work on it continues in graduate work.

EDUCATION

🏛 University Degree

MIPT, Bachelor

📅 September 2020 – July 2024

4th year student at phystech-school of applied mathematics and informatics

SKILLS

- Development languages

`Java` – commercial development

`Kotlin` – web-applications with `Ktor`

`C++` – LLVM, STL, Standard library, etc.

`C` – Standard, POSIX and MPI libraries.

`Python` – automated Web UI-testing via Selenium WebDriver (PyTest, unittest)

`Ruby` – basic knowledge and creation of simple Web applications via `Ruby on Rails`

`Shell` `Go` – basic knowledge

- Had work experience

`LLVM` – writing analysis passes for **LLVM Opt**, comprehention of most **LLVM IR** instructions

`SQL` – `Microsoft SQLS` `PostgresQL`
`CypherQL` – `Neo4j` (graph DBMS)

`Gradle` – building projects with adding your own tasks (gradle tasks)

`CMake` `Make` – cross-platform compilation of C, C++ and LaTex projects

`GoogleTest` – unit-testing (C++)

`Doxygen` – code documentation

`PDP-11 Assembly` `Bash` `MD` `LaTex`

- Tools and approaches

`GitHub` `GitLab` `Jira` `Agile` `Postman`
`pgAdmin4`

LANGUAGES

- English — `Pre-Intermediate`