ARTYOM FARTYGIN

Software Engineer

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EXPERIENCE

Laboratory Assistant [Java]

Institute for System Programming of the RAS

📅 October 2022 – present 🔗 Svace

- Developed **2** insecure code detectors for Samsung's main static analyzer – **Svace**. Developments are included in the latest release.

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- Modernized an outdated geoportal which was developed **10** years ago.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

SQL to CypherQL Converter [C++]

Open-Source project – Data Migration Tool

📅 February 2022 – present ○ sql2cypher

- Microsoft SQL (relation DBMS) queries translation into CypherQL language (graph DBMS neo4j);
- Development according to Agile (Scrum) in the team of two;
- Technology stack: git-flow, GoogleTest, Doxygen, CI, graphviz, CMake;
- Implemented configuration and logging systems for the application, queries syntax analyzer (building AST), also, query translator;
- The tool already allows you to translate simple schemes, and work on it continues.

PDP-11 Emulator [C]

Coursework at MIPT

📅 April – July 2021 ○ pdp11-emulator

- Coursework was done according to professor's specifications;
- Developed an extensive functionality: a lot of commands, processor state word, etc.

EDUCATION

🏛 University Degree

MIPT, Bachelor

📅 September 2020 – July 2024

3rd year student at phystech-school of applied mathematics and informatics

SKILLS

- Development languages

  [C++] – **LLVM**, **STL**, **Standard** library, etc.

  [C] – **Standard** and **POSIX** libraries.

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

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

  [Java] – **Standard** library

  [Shell] – simple scripts

  [Kotlin] [Go] – basic knowledge

- Had work experience

  [LLVM] – writing analysis passes for **LLVM Opt**, comprehension of most **LLVM IR** instructions

  [SQL] – [Microsoft SQLS] (relational DBMS)

  [CypherQL] – [neo4j] (graph DBMS)

  [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]

LANGUAGES

- English — [Pre-Intermediate]