

ARTYOM FARTYGIN

Software Engineer

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EXPERIENCE

Assistant Engineer C++

Huawei – System Engineering Lab

Summer Internship 2022

- Developed 3 detectors of inefficient code (**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

- Modernized an outdated geoportal which was developed 10 years ago.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 – May 2022

- 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.

Coursework – PDP-11 Emulator C

MIPT

April – July 2021

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

CERTIFICATES AND DIPLOMAS

Participations in two international olympiads on astronomy and astrophysics

IOAA and IAO

Successful course completion C++

Coursera – «Development basics in C++: White belt»,
«Development basics in C++: Yellow belt»,
«Agile with Atlassian Jira»

Successful course completion Java

JetBrains Academy – Java for beginners

EDUCATION

University Degree

MIPT, Bachelor

September, 2020 – July, 2024

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

Secondary Education

LORD lyceum

September, 2009 – June, 2020

Graduated with honors

SKILLS

- Main 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 – basic knowledge

- Had work experience

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

SQL – Microsoft SQL Server

CypherQL – neo4j (Graph DB)

CMake Make – cross-platform compilation of files in **C** and **C++** languages

GoogleTest – Unit-testing (**C++**)

Doxygen – code documentation

PDP-11 Assembly Bash MD LaTeX

- Tools and approaches

GitHub GitLab Jira Agile git-flow

LANGUAGES

- English – Pre-Intermediate