

# ARTYOM FARTYGIN

## Software Engineer

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## EXPERIENCE

### Assistant Engineer C++

#### 🌸 Huawei – System Engineering Lab

📅 Summer Internship 2022

🔗 Huawei RRI

- 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

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- Modernized an outdated geoportal which was developed **10** years ago.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

🔗 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.

### 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.

## CERTIFICATES AND DIPLOMAS



**Participations in two international olympiads on astronomy**  
IOAA and IAO



**Successful course completion** C++

Coursera – «Development basics in C++: Yellow belt»



**Successful course completion** Agile

Coursera – «Agile with Atlassian Jira»



**Successful course completion** Java

JetBrains Academy – «Java for beginners»

## EDUCATION

### 🎓 University Degree

#### MIPT, Bachelor

📅 September, 2020 – July, 2024

3<sup>rd</sup> 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 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 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

## LANGUAGES

- English – Pre-Intermediate