

Kirill Andriianov

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Education

ITMO University

BACHELOR'S DEGREE IN APPLIED MATHEMATICS AND COMPUTER SCIENCE

Saint Petersburg

2019–2023

Relevant Courses

- C++ Advanced
- Distributed Systems
- Assembler x86
- Reverse Engineering

Experience

Software Engineer

Serbia, Belgrade

YANDEX, YANDEX.MESSENGER BACKEND

June 2022 - Now

- Messenger integration with "Telemost" group calls service:
 - Was responsible for the backend platform during the development of the features
 - Participated in design process of integration architecture, client-server protocol
 - Implemented big part of feature in backend
- Designed and implemented GDPR-compliant users deletion feature
- Participated in architecture design and implementation of several other features

Junior Software Engineer

Russia, Saint Petersburg

WÄRTSILÄ VOYAGE, AUTO-ROUTING TEAM

4 months, February 2022 - May 2022

- Worked on research about constructing routing graph from monitoring routes
- Implemented rendering for viewing routes in developer viewer software

Software Engineering Intern

Russia, Saint Petersburg

YANDEX, YDB TEAM

5 months, March - August 2021

- Improved export process performance in error cases by changing core logic
- Implemented feature for managing partial results of export process in YDB CLI tool

Teaching Experience

Teaching Assistant of Algorithms

Saint Petersburg

EDUCATION CENTER "INTELLIGENCE"

Summer, Autumn 2020

- Prepared two problem sets using tasks from [this site](#)
- Gave a lectures about *dynamic programming* and *shortest paths*
- Helped schoolchildren at practices

Pet-Projects

Variant

C++

2021

- Implemented class from standard library
- Implemented idea of using **switch** statement for dispatching alternatives in **visit** and improving performance instead of GCC's **jump-table**
- Paid attention to the *triviality of the functions* and *exception safety* guarantees
- Implemented the ability to use the class in the *constexpr* context
- Passed integration tests and code review

Parser generator

C++, ANTLR4

2022

- Generator produces C++ parser of given *LL(1) attribute grammar*
- Supported *inherited* and *synthesized* attributes
- Implemented *LL(1)* check before producing result

Awards

ICPC North-Western Russia Regional Contest

Saint Petersburg

COMPETITIVE PROGRAMING TEAM CONTESTS

2020

- Participant, 24th of 140 teams

National Team Olympiad in Competitive Programming

Saint Petersburg

COMPETITIVE PROGRAMMING TEAM CONTESTS

2018

- Awardee, 29th of 680 teams