

Roman Vsemirnov

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EDUCATION

Constructor University

Bachelor of Computer Science

Bremen, Germany

February 2023 – June 2023

Higher School of Economics

Bachelor of Applied Mathematics and Computer Science
GPA 7.33/10.0

St.Petersburg, Russia

August 2020 – January 2023

Relevant Courses:

- **Programming:** Machine learning, Databases, Algorithms and Data Structures, C++/C, Java, Python
- **Math:** Mathematical statistics, Calculus & Analysis, Numerical methods, Linear Algebra, Graph theory

TECHNICAL SKILLS

Languages: C++(17), C, Python, Java, Bash

Developer Tools: Git, Vim, QT, Android Studio, Terminal (Linux), SQL

EXPERIENCE

USI Lugano Internship

Java, Researcher

Lugano, Switzerland

July 2023 – September 2023

- Figure out Apache Storm distributed system and Partially homomorphic encryption
- Implement new encryption system in Apache storm
- Test the effectiveness of the proposed coding method
- Solving problems with ciphertext extension, optimizing the solution

Yandex Software Engineer | DRM developing OTT Team

Python, C Developer

Remote

October 2022 – January 2023

- Research of x264 codec parameters in order to improve video quality
- Sorted out the graph launch system and implemented it into the code
- Fixed bugs and improved team's internal service
- Replenished the database of analyzed videos for further research

Yandex Internship | DRM developing OTT Team

Python, C Developer

St.Petersburg, Russia

July 2022 – October 2022

- Backend developer of internal video file processing systems.
- Figured out the large code base of the service and many in-company utilities.
- Doubled the number of available metrics and speed up work by 20-25%
- Research of metrics behaviour on various video compression.

PROJECTS

Thesis: Machine Learning for video compression improvement | *Python, C*

February 2023 - Present

- Exploring the area and already existing solutions
- analysis and selection of x264 parameters
- Creating a dataset and searching for features
- Building a Model and Analyzing Results

Kinetica | *Java, Kotlin*

January 2022 – June 2022

- Android application for tracking medicines
- Developed UI with Android Studio
- Implemented a graph framework

OLYMPIADS AND OTHER ACHIEVEMENT

JetBrains study scholarship | *in Constructor University*

February 2023 - June 2023

JetBrains personal scholarship | *For excellent academic performance*

September 2020 - December 2021

All - Russian school olympiads at math | *Winner, medalist*

October 2019 - April 2020