

ANDREI NEKRASOV

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Java, Spring (SpringBoot, JPA), PostgreSQL, TypeScript, Maven, Git, VueJS,
Project Patterns, C/C++, NASM, Docker, AnyLogic, Python, Django

EXPERIENCE

Senior Assistant at AI Lab, ITMO *St. Petersburg, Russia, Dec 2023 - July 2024*

- Adapting the DVC codec for operation without a feedback channel (C++)
- Developing an Encoder Rate Control library using neural networks (Python+TensorFlow)

Junior Java Developer at Bifit *Moscow, Russia, Aug 2022 - Aug 2023*

- Optimized time of tests in a module from 10 minutes to 4 with changing database-initialization issues and introducing multi-threading.
- Fixed precision issues in local fork of Velocity template engine
- Implemented parts of Fast-Payment-System module for "iBank for corporate" app

Simulation modelling engineer at IdeaPlatform *Moscow, Russia, Feb 2020 - Sep 2020*

- Developed agent-based and discrete-events models for railroad repairment processes from scratch in AnyLogic using Java and PostgreSQL
- Created API for interacting with database optimized for writing sequential data used for graphic rendering

EDUCATION

Master of Science in Computer Science, ITMO university *Expected 2025*

Bachelor of Applied Maths and Computer Science, State University of Management 2022 - 2023

(transfer) Bachelor of Applied Maths and Computer Science, Lomonosov MSU 2018 - 2022

Relevant Coursework: Algorithms and Data Structures, Data Bases, Operating Systems, Machine Learning and Deep Learning.

Achievements:

- Student Olympiad of HSE University: "Applied Mathematics and Computer Science, Financial Technologies track" - II degree diploma, "Applied Mathematics and Computer Science, Artificial Intelligence track" - III degree diploma
- Winner of the Gazprom Student Olympiad, "Information Systems and Technologies"
- Winner of the Best Young Scientist Presentation at the ITMO Young Scientists Congress, publication in proceedings
- Huawei Scholarship and VTM Faculty of Mathematics and Computer Science, Moscow State University

PERSONAL PROJECTS

AnTTable - University timetable generation: A tool for automatically generating and optimizing timetables for universities using genetic search. Created a website to interact with said algorithm using SpringBoot, VueJS and PostgreSQL

AbitInfo - Platform to help gifted students choose university: A web-platform, implemented in Python with Django framework, that aggregates information about universities and privileges they give based on educational achievements and provides a convenient interface to help students choose university.