



Airat Valiullin

Software Developer,
Mathematician, Researcher

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Address

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Work experience

Working student

ASMPT GmbH, Jan 2024 – present

- developed and deployed a web application for the visualization of the research and development
- processed, analysed and visualized 10Tb of bug reports data
- trained and deployed a ML model to detect machine failures

HiWi Student

TUM Robotics Lab, Feb 2023 – Oct 2023

- worked on a motion planning framework to ensure safe human-robot interaction
- assisted with motion capturing live data
- extracted and processed sensor data

Student Intern

Schlumberger Research, Jun 2022 – Oct 2022

- implemented accurate and robust numerical methods to solve acoustics PDEs and model turbulent flow

Researcher

RAS, Mar 2021 – Dec 2023

- (co)authored research papers, reports and summaries regarding wave partial differential equations

Mathematics Tutor

Oct 2019 – Oct 2022

- tutored up to 10 students per week in private sessions using detailed lesson plans
- stressed importance of good study habits
- taught students A-Level mathematics, prepared for various math olympiads

Education

Master of Science

Technical University of Munich

Oct 2022 – Jul 2025 (expected)

Computational Science and Engineering; Machine Learning for Dynamical Systems

Bachelor of Science

Moscow Institute of Physics and Technology

Sep 2018 – Aug 2022

Applied Mathematics and Physics (Complex Systems and Partial Differential Equations)

Skills

- Mathematics and Analysis
- Data Visualization and Processing (ETL/ELT)
- Algorithms and Data structures
- Machine Learning, Statistics, Data Science
- Technical Writing

Tools

- Python
- SQL
- Git
- VSCode
- C++
- LaTeX
- Linux
- Apache Spark/Airflow
- SolidWorks, Matlab, MSOffice, R and many other

Languages

- English (C1/C2)
- German (B2)
- Russian (native)
- Tatar (native)

Events

- IAC2022, Paris, Sep 2022
- HackaTUM22/23/24, Munich, Novembers 2022/23/24
- Ferienakademie 2023 (SDEs), Sarntal, Sep 2023
- PyCon Sweden 2024, Stockholm, Nov 2024
- PyData Global 2024, virtual, Dec 2024
- START Hack, Munich, Dec 2024 (winner)
- START Hack, St. Gallen, Mar 2025 (winner)

Profiles

GitHub (**see complete CV here**):

<https://github.com/rayannott>

LinkedIn:

<https://www.linkedin.com/in/airat-valiullin-067718256/>