

# Ekaterina Ankudinova

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Computer Science student at HSE. Seeking software development internships to apply C++/Python skills in complex systems. Strengths: algorithm optimization and low-level programming.

## Education

- 2023–2028 (expected) **BSc Computer Science and Data Analysis, *National Research University Higher School of Economics (HSE)*, Moscow.**
- o **Relevant coursework:** Data Structures, Algorithms, Calculus, Linear Algebra
  - o **Minor:** Teaching Mastery in the Digital Age

## Experience

- 2020–Present **Programming & Mathematics Tutor, *Self-employed*.**
- o Teach Python and C++ to middle and high school students
  - o Trained 8 prize winners and 2 winners of city mathematical Olympiads
    - All students passed their final exams with 4+ grades or 75+ points.
  - o Developed personalized curriculum focusing on algorithmic thinking
- June 2024–Mar 2025 **Junior Software Developer, *ROSTECH Aviation factory*, Moscow.**
- o Developed an initial version of testing software for aviation navigation systems
    - Using C++Qt, OpenCV and Arduino.
    - Created a sensor signal simulator using Arduino
  - o Developed an initial version of visualization tools for flight data recorder analysis
    - Using PyQt, matplotlib, NumPy, Pandas
    - Created a data visualization tool with anomaly analysis
- September 2022 **Data Annotation Specialist, *DAFE MIPT Laboratory*, Moscow.**
- o Annotated computer vision datasets for machine learning models
    - Using CVAT
    - Labeled over 1500 images using instance segmentation method.

## Technical Skills

- Languages C++ (STL, Qt, OpenCV), Python (PyQt, asyncio)
- Tools Git, Linux (Bash), Docker,  $\text{\LaTeX}$ , CMake
- Concepts OOP, Multithreading, Algorithms
- Mathematics Calculus, Linear Algebra, Discrete Math, Probability

## Languages

- Russian Native
- English B2 (Upper-Intermediate, Technical Documentation)

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