

Vladimir Smirnov

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EDUCATION

Moscow Institute of Physics and Technology

Bachelor's of Science in Applied Math and Computer Science

Moscow, Russia

Sep. 2020 – Expected June 2024

- Current GPA: 8.20/10.0
- Recipient of a merit-based scholarship, covering full tuition
- Majoring in the Department of Discrete Mathematics

PROJECTS

Stochastic Methods in Federated Learning

Feb. 2023 – May. 2023

- Contributed to extending research on optimal gradient sliding in distributed optimization
- Developed and analyzed a stochastic algorithm variation, providing theoretical justification for convergence time
- Conducted practical experiments to validate convergence time
- Prepared a mock-up presentation to demonstrate the project's potential impact on federated learning research

Online Math Platform

Sept. 2022 – Dec. 2022

- Created an interactive math forum, facilitating collaboration on math olympiad problems
- Enhanced user engagement by implementing data-driven features
- Utilized a full development stack, including React, Django, and Nginx
- Incorporated various libraries including mathjax, Bootstrap, and Pillow for improved functionality

C++ Data Parser

Sept. 2023

- Developed a versatile C++ data parser supporting different data formats
- Showcased expertise in SOLID principles and design patterns
- Enhanced functionality by utilizing C++ format and storage libraries, ensuring efficient data processing
- Highlighted a strong focus on best practices in software development and design

ACHIEVEMENTS & AWARDS

Kazakhstan National Olympiad in Mathematics

Silver and Bronze Medals | Top 8 out of 5k Kazakhstan high school students

March 2020, 2019

Asian Pacific Mathematics Olympiad

1st degree diploma | Top 1-3 among 5k Kazakhstan High School Students

Feb. 2020

International Zhautykov Olympiad in Mathematics

Silver and Bronze medals | Top 50 out of 200+ selected participants from 20+ countries

Almaty, Kazakhstan

Jan. 2020, 2019

National Mathematics Team Member

Maintained a high level of mathematical expertise through consequent selections

March 2019 - Aug. 2020

EXTRA-CURRICULAR ACTIVITIES

Beyond Curriculum pf.

Math Section Contributor

- Contributed in the development of the training program for math enthusiasts, benefiting 1000+ platform users
- Organized and supported training olympiad by providing math problems and marking schemes

TECHNICAL SKILLS

Languages: Python, C++, C, SQL (PostgreSQL, MySQL, SQLite), JavaScript, Rust, Git

Frameworks: React, Django

Tools and Technologies: Git, Docker, Nginx

Libraries: PyTorch, SciPy, Plotly, scikit-learn, Redux, gtest

ONLINE COURSES

- Programming in Python course by Moscow Institute of Physics and Technology and Mail.ru Group
- Deep Learning course by MIPT Deep Learning School