ALEXANDER ZENKOVICH

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SKILLS

Programming

C++   ●●●●●
C++ for any application.
Familiar with template metaprogramming & other tricks

Python   ●●●◐○
Simple Python for scripting & ML

Haskell   ●●○○○
Currently learning the language

Concurrency   ●●●●○
The low level: MESI protocol, C++ memory model,
simplest lockfree algorithms

[Ubuntu user] [git] [bash]

Mathematics with applications

Combinatorics   ●●●●●
Intimately familiar with the subject

Mathematical Logic   ●●●●○

Computational Complexity   ●●●●○
The discipline is large & I cannot know everything

Linear algebra   ●●●●●

Category Theory   ●●●●○
Basics: Yoneda, left adjoints preserve colimits, monads

Advanced Mathematics

[Homological Algebra] [Ring Theory]
[Algebraic Topology] [Algebraic Geometry]

PROJECTS

Online Space Shooter

- A 2D space shooter game, in which objects fully follow Newtons laws. Very fun.
- Collaborative work with friends
- Written in C++ only

C++ stateful metaprogramming library

Work in progress.
This is a very small library which enables one to write template metaprogramming code in an imperative style, with variables, ifs and for-while loops operating on types and constexpr values.

LANGUAGES

Russian (native)   ●●●●●

English (C1)   ●●●●●

French (A2)   ●◐○○○

EDUCATION

B.Sc. in Applied Mathematics & Informatics

Moscow Institute of Physics and Technology

🗓 Sept 2020 – present   📍 GPA: 4.6/5

High school

School #1589, Moscow

🗓 2019-2020   📍 GPA: 5.0/5

Lyceum for Gifted Children, Saransk, Mordovia

🗓 2017-2019   📍 GPA: 5.0/5

OTHER ACHIEVENTS

🏆 **Gold Medalist at the International Physics Olympiad**
Member of the Russian National Team, Moscow, Russia, December 8-15, 2020

🏆 **Gold medal at the International Zhautykov Olympiad for Physics**
Almaty, Kazakhstan, January 2020

PERSONAL INTERESTS

[Drawing] [Mountain hiking]
[Esoteric mathematics]