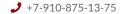
ALEXANDER ZENKOVICH









SKILLS

Programming

C++ C++ for any application.

Familiar with template metaprogramming & other tricks

Simple Python for scripting & ML

Haskell

Currently learning the language

Concurrency

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

Ubuntu user

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

P GPA: 5.0/5

High school

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