

ALEXANDER ZENKOVICH

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github.com/alexthepolygonal



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 ● ● ● ● ●

Basics, 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 ● ● ● ● ●

Yoneda, Left adjoints preserve colimits, Monads

Advanced Mathematics

Homological Algebra

Ring Theory

Algebraic Topology

Algebraic Geometry

PROJECTS

Online Space Shooter

github.com/StarikTenger/spaceSodomy2/

- 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

github.com/AlexThePolygonal/Compile-time-variables-in-cpp

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 ● ● ● ● ●

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

High school

Lyceum for Gifted Children, Saransk, Mordovia

2017-2019 GPA: 5.0/5

OTHER ACHIEVEMENTS

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