VLADIMIR KUKHARENKO

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EDUCATION

Moscow Institute of Physics and Techology   2019 – 2023
BSc in Applied mathematics and Computer science   *Moscow, Russia*
Overall GPA: 9.47 / 10   Ranking top 5%

WORK EXPERIENCE

Innopolis University   July 2020 - September 2020
Researcher   *Remote*

· Conducted research work on formal verification of the HotStuff consensus protocol.
· Created a model in the TLA+ language for formal verification of the Safety property.
· Participated in writing an article about results. The article will be published soon.
· Technologies used: TLA+, TLC model checker.

School project for RUSAL company   2017 – 2019
Developer   *Moscow, Russia*

· Created a test data generator using C language.
· Observed different navigation systems. Examined their suitability for the project.

PROJECTS

Task manager server - NeverNote   Spring 2020

· Implemented local server using Python and Flask.
· Developed design using HTML and CSS.
· Added the possibility to download/upload the current state of the board in JSON format.
· Used unittest to test functionality.

Console game - MazeRunners   Spring 2020

· Used patterns to structure the code and add modularity. This approach will allow expanding the project in the future.

Math library - Matrix   Spring 2020
University project

· Implemented large modules of C++ code. Trained to use templates and organize development in C++.
· Used the Googletest to test parts of the project.

HONORS & AWARDS

A personal scholarship from the Moscow City Government   2019 - 2020

Issued for special success in school. Results of all exams in Unified State Examination - 397 / 400. Approximately 5,000 graduates from 64,500 receive this award.

Regional stage of the Russian National olympiad in programming   2019

Medal awardee. I got into the top 50 all over Moscow.

TECHNICAL SKILLS

Advanced algorithm and data structure knowledge.

Languages	Python, C++, C, Standard ML, TLA+
Development tools	Linux, Git, CMake, Googletest, Unittest
Additionally	Bash, Assembler, HTML5, Flask