

VLADIMIR KUKHARENKO

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EDUCATION

Moscow Institute of Physics and Technology 2019 – 2023
BSc in Applied mathematics and Computer science Moscow, Russia
Overall GPA: 9.58 / 10 Ranking top 5%

WORK EXPERIENCE

Innopolis University October 2020 - Current
Developer Remote, Part-time

- Participated in the implementation of the **SCALE** serialization.
- Developed a significant module of a distributed system and tested it.
- Gained experience in blockchain node development.
- Technologies used: **CakeML** (verified implementation of a significant subset of **Standard ML**).

Innopolis University July 2020 - September 2020
Researcher Remote, Full-time

- 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 articles about results([SHS Web Conf.](#), [MAIS-journal](#)).
- Technologies used: **TLA+**, **TLC model checker**.

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.

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

ICPC, Moscow Regional Contest - Third Award 2020

We got into the top 50 all over Moscow region.

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.

TECHNICAL SKILLS

Advanced algorithm and data structure knowledge.

Languages Python, C++, C, Standard ML, TLA+

Development tools Linux, Git, CMake, Googletest, Unittest

Additionally Flex, Bison, Bash, Assembler, HTML5, Flask