

# DUNAITSEV ALEXANDER

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## EDUCATION

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**Bauman Moscow State Technical University**

**09.2019 – 06.2023**

*Bachelor "Computer-aided design systems" - **CGPA** - 4.68*

*Moscow, Russia*

## ADDITIONAL EDUCATION

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Course "Prepatory program C/C++" Technopark BMSTU

02.2020 – 06.2020

Course "Linux system administration" Technopark BMSTU

02.2020 – 06.2020

Course "Algorithms and data structures" VK Education

09.2021 – 12.2021

Course "System architect" VK Education

02.2022 – 06.2023

## PROJECTS

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**Application for rendering polygonal numbers** 🔗 | [C++](#), [SFML](#), [CMake](#)

**06.2020**

- Developed application for polygonal numbers rendering as a part of research work "Polygonal numbers and polygonal patterns".
- <https://github.com/dunaitseva/NIR>

**AES algorithm implementation** 🔗 | [C++](#), [GitHub Actions](#), [GTest](#), [CMake](#)

**01.2021**

- Created C++ library that implements AES (according to FIPS 197, AES is based on the Rijndael symmetric cipher algorithm).
- <https://github.com/dunaitseva/AES>

**Web-application "Hospital"** 🔗 | [Python](#), [Flask](#), [HTML](#), [CSS](#), [Bootstrap](#), [MySQL](#)

**09.2021**

- As a part of the course work designed web application. Created REST API for hospital management system, using the MVC design pattern.
- [https://github.com/dunaitseva/course\\_project\\_infosys\\_bmstu](https://github.com/dunaitseva/course_project_infosys_bmstu)

## SKILLS

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**Programming languages:** Python, C, C++, Bash, SQL,  $\text{\LaTeX}$

**Technologies/Frameworks:** STL, Boost, GTest, CMake, Linux, Flask, Git, GitHub Actions, HTML, CSS, Bootstrap

## ADDITION

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- Test writing experience.
- CI usage experience.
- Used dynamic (valgrind, sanitizers) and static (cpplint, cppcheck, fbinfer, clang-tidy, etc.) code analysis tools.
- Math experience: linear algebra, statistics, optimization methods. Researched and implemented numerical methods algorithms.
- General engineering skills. CAD/CAM systems experience (Siemens NX, Autodesk Inventor).