

DUNAITSEV ALEXANDER

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EDUCATION

Bauman Moscow State Technical University

09.2019 – 06.2023

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

Moscow, Russia

ADDITIONAL EDUCATION

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

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

SKILLS

Programming languages: C++, C, Python, Bash, SQL, \LaTeX

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

ADDITION

- 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).