

DUNAITSEV ALEXANDER

Date of birth: 16.10.1999

City: Moscow

☎ +7 (926)-649-00-06

✉ dunaitsev.alexander@gmail.com

🐙 [dunaitseva](#)

📌 [dunaitseva](#)

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

Heat equation solver for plates 📄 | C++, CMake, gnuplot, ANSYS

05.2022

- Created library that provides finite difference method for solving non-stationary heat equation for metal plates with arbitrary geometry and boundary conditions.
- Developed classes for rendering animation of plate heating.
- <https://github.com/dunaitseva/finite-diff-method>

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, flinfer, 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).