

# Nikolai Kossa

+7 925 901 95 50 | [nikolaikossa@gmail.com](mailto:nikolaikossa@gmail.com) | [github.com/nakinamo](https://github.com/nakinamo)

## EDUCATION

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### HSE University

2020 – 2024

*Bachelor of Computer Science*

- GPA: 3.5
- Computer Architecture and Operating Systems, Advanced C++ Course
- Calculus, Linear Algebra, Mathematical Statistics

## EXPERIENCE

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### Yandex

June 2021 – October 2021

*Software Engineer Intern* | C++, Python, Bash, SQL

*Russia*

- Expanded coverage of English search suggestions by 0.5%
- Automated data markup and ML pools building
- Added new data sources

### Algorithms Tutor

November 2018 – December 2018

*Intensive Competitive Programming Classes for Schoolchildren*

*Russia*

- Organized competitive programming lessons for high school students
- Gave classes and prepared problem sets for the students
- Reviewed students code and guided students in debugging and optimization

## PROJECTS

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### CV with Continuous Integration | *CI/CD Docker* | [Nakinamo/CV](#)

November 2021 – December 2021

- Made a GitHub Action to compile and upload LaTeX document
- Implemented a compilation of LaTeX file using docker container

### Hash Map Implementation | *C++ Git* | [Nakinamo/hash\\_map](#)

May 2021 – June 2021

- Implemented a template bucket hash table with linear iteration guarantee
- Implemented a dynamic resizing to maintain amortized  $O(1)$  performance of operations
- Tested it on three different data types over  $10^7$  queries each

## PERSONAL ACHIEVEMENTS

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### Google Hash Code

2021

Top 2.8% out of 9004 teams

### Russian State Olympiad in Informatics

2020

Top 0.9% out of more than 13000 participants

## SKILLS

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**Programming Languages:** C, C++, Python, JavaScript, SQL, Bash

**Developer Tools:** GDB, Git, Docker, CI/CD

**Libraries:** React, NumPy, Pandas, Matplotlib

**Languages:** Russian, English