

# Nikolai Kossa

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## 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*

- Taught basic algorithms and data structures
- Helped children solve problems and write code

## PROJECTS

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### Hash Map Implementation | C++

May 2021 – June 2021

- Implemented a bucket hash table with linear iteration guarantee
- Implemented a dynamic resizing to maintain amortized  $O(1)$  performance of operations

### CV with Continuous Integration | CI/CD Docker

November 2021 – December 2021

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

## PERSONAL ACHIEVEMENTS

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### Google Hash Code

2021

254th out of 9004 teams

### Russian State Olympiad in Informatics

2019 – 2020

120th out of more than 13000 participants

## SKILLS

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

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

**Libraries:** NumPy, Pandas, Matplotlib

**Languages:** Russian, English