

Nikolai Kossa

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EDUCATION

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

Yandex

June 2022 – Present

Middle BackEnd Developer | C++, PostgreSQL, OpenAPI, Userver

Russia

- Improved functionality of service used to calculate courier salaries
- Rewrote complex PostgreSQL queries used in runtime, which reduced response time of service
- Partnered with colleagues to redesign internal API, that offered increased flexibility and usability boost

Yandex

June 2021 – October 2021

Software Engineer Intern | C++, Python, Grafana, SQL

Russia

- Expanded coverage of English search suggestions by 0.5% by adding new data sources
- Automated regular data labeling on Toloka and ML pools building with internal tools
- Configured regular processing of labeled data for plotting graphs in Grafana

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

ICPC-Live 3 | *React JavaScript* | [icpc/live-v3](https://github.com/nakinamo/icpc-live-v3)

March 2022 – Present

- Implemented admin interface for live-streaming overlay
- Set up interaction with backend api
- Implemented a support for mobile devices

CV with Continuous Integration | *CI/CD Docker* | [Nakinamo/CV](https://github.com/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](https://github.com/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

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

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

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

Libraries: React, NumPy, Pandas, Matplotlib

Languages: Russian, English