Nikolai Kossa

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EDUCATION

HSE University   2020 – 2024

Bachelor of Computer Science

- GPA: 3.5/4
- Computer Architecture and Operating Systems, Advanced C++ Course, Algorithms and Data Structures
- Calculus, Linear Algebra, Mathematical Statistics, Machine Learning, Deep Learning, Optimization Methods

EXPERIENCE

Yandex Market   May 2023 – Present

Middle Data Analyst | SQL, Python, Pandas, scikit-learn   *Russia*

- Gathered and analyzed data related to keyword relevance from thousands of queries; implemented adjustments based on results which boosted organic traffic through improved search result accuracy by over 20K unique visitors monthly
- Worked closely with managers and department head to integrate state of the art LLMs into navigation interface
- Helped managers make product decisions based on orders conversion data and actively participated in the integration of services from other Yandex products
- In a team with colleagues from a deep learning department, engaged in training of Image To Text models to improve search ranking
- Worked on a strategic project alongside data scientists that focused on refining algorithms for personalization within search engine, leading to improving personalized search result KPI by 5%

AGT   October 2022 – March 2023

Middle Quantitative Developer | C++, Python, SciPy, Pandas, scikit-learn   *Russia*

- In a workgroup with analysts participated in creation and implemented a strategy based on a paired standard deviation for cryptocurrency exchanges
- Researched dependence of cryptocurrency prices on fundamental data of blockchain, which led to development of a new strategy resulting in a 30% reduction in costs
- Collaborated with teammates to analyze the shortcomings and enhance functionality of internal exchange orders processing

Yandex Eats   June 2022 – October 2022

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

- Improved functionality of service used for calculating couriers' wages, that made it possible to take more factors into account
- Rewrote complex PostgreSQL queries used in runtime, which improved response time of service
- Spearheaded complete redesign of the internal API, enhancing flexibility and usability; the new architecture decreased integration time for new features by 40%, enabling faster deployment cycles

Yandex   June 2021 – October 2021

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

- Expanded coverage of search suggestions in English by 0.5% by adding new data sources, increasing target metrics of service
- Automated the regular data labeling on Toloka and ML pools building with internal tools, which reduced team workload
- Configured regular processing of labeled data for plotting graphs in Grafana, which led to a 50% reduction in data delivery time

Projects

ICPC-Live 3 | *React JavaScript* | ⍉ icpc/live-v3   March 2022 – Oct 2023
- 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   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

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
Developer Tools: GDB, Git, Docker, CI/CD
Libraries: NumPy, Pandas, MatPlotLib, scikit-learn, React
Languages: Russian, English