Nikita **Sheverdov**

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Work experience

Yandex: Developer in the ML Infrastructure Team of the Real-Time Bidder Ads Engine *Moscow, Russia*

SOFTWARE ENGINEER *January 2023 - Present*

Yandex Ads engine is a monolith worked on by hundreds of people, handling millions of RPS and generating a large portion of the company's revenue.

Bidder is the technology within the engine that allows placing bids on banners in the advertising auction.

Our small team is responsible for the part of the bidder that uses ML models to place bids in the auction, allowing advertisers to pay only for conversions (rather than clicks or shows).

- C++, Python, SQL, YTSaurus, Docker, Grafana
- Saved **tens of thousands of CPU cores and hundreds of terabytes of HDD** through optimizations in the code
- Conceptualized and implemented the feature infrastructure for ML models. **Advertising revenue increased by a few percent**
- Developed a Real-Time bidding validation mechanism
- Developed a quality metric for the fraud-ad-filtering service
- In addition to development, took on the role of **"Chief Reliability and Stability Officer"** for several services
- Mentored an intern
- Gave internal talks about ads engine for new employees

Skills

Programming Languages   **C++** (23, 20, 17, 11), Python, Rust, Go

Software & Tools   GDB, Git, Bash, Docker, Kubernetes, SQL (PostgreSQL, MySQL, YQL), Grafana

Projects

Asynchronous socket messenger 🔗
- Fully C++ (even GUI)
- Created entire backend
- Developed asynchronous client interactions with GUI and server

Interpreter of a LISP-like programming language «Scheme» 🔗 *Moscow, Russia*
- Paid a lot of attention to the code style, correct memory allocation and program structure
- Expanded the Yandex Data Analisys School test base for this task

My own implementation of smart pointers in C++ 🔗 *Moscow, Russia*

BMP file editor with photo filtering 🔗 *Moscow, Russia*
- Implemented complex filters and a convenient base for implementing new filters
- Improved the «typical» solution to this problem thanks to more economical and convenient storage of photos

Education

National Research University - Higher School of Economics *Moscow, Russia*

BACHELOR'S DEGREE IN «APPLIED MATHEMATICS AND COMPUTER SCIENCE» *September 2021 - June 2025*
- Computer Science cources: Distributed Systems, C++, Python, Algorithms and Data Structures, Computer Architecture and Operating Systems, Service-Oriented Architectures, Research Seminar (reading papers)
- Mathematics Courses: Linear Algebra, Machine Learning, Algebra, Probability Theory, Mathematical Statistics, etc

Yandex School of Data Analysis *Moscow, Russia*

STUDENT *September 2022 - Present*
- Completed courses: C++, Concurrency, Database Systems
- Current courses: Rust, Go