

# Svyatoslav Feldsherov

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## KEY SKILLS

SWE · Backend · Concurrency  
Algorithms · Distributed systems  
DevOps

## LANGUAGES

C++ · Python · Java

## TECHNOLOGIES

grpc · protobuf · Docker  
SQLite · MySQL · CMake  
git · SVN · Hadoop · Django

## EDUCATION

**MOSCOW STATE UNIVERSITY**  
2013-2019 | MS in Math  
GPA: 5.0/5.0

**YANDEX SCHOOL OF DATA ANALYSIS**

2016-2018 | CS Track

Yandex School of Data Analysis is a Machine Learning and Computer Science school in Moscow.

**TECHSPHERE**

2016-2017 | Data analysis and ML

Techsphere is an educational project hosted by Mail.ru Group and Computer Science faculty at Moscow State University.

## COURSEWORK

Algorithms and Data structures  
Advanced Machine Learning  
Bayesian Methods for Machine Learning  
Computational complexity  
Information theory  
Large-scale machine learning  
Natural language processing  
Numerical methods  
Operating systems

## EXPERIENCE

**Yandex Search**

06.2020-present | Teamlead

My team is working on a company-wide microservices framework, which serves 1000 microservices, 1 billion requests per second.

We use C++ for data plane, Python for control plane, and tests/infrastructure. Main achievements are 99.999% availability, HTTP transport replacement with faster implementation, speedup of distributed tracing over our framework from minute to 1-3sec per request.

**Yandex Search**

11.2018-06.2020 | Software Engineer

Worked on Search Infrastructure team. C++, Python, grpc, networking.

Designed and implemented SDCH support for Search Engine Result Page. Main part was C++ backend with custom SDCH implementation.

Improved search query preprocessing pipeline. Reimplemented part of business logic with C++, fixed some architectural problems, got speedup.

**Google**

07.2018-10.2018 | Software Engineering Intern

Worked on Shopping Data Quality team. Primary C++, MapReduce, Stubby.

Designed and implemented an infrastructure for intellectual scheduling of merchants review. This infrastructure helped to improve existing scheduling logic and allowed the team to migrate from several legacy services.

**Yandex Ads**

03.2017-06.2018 | Junior Backend Developer

Designed and implemented distributed log collection and event plotting system using internal technologies, including YT — Bigtable-like storage with MapReduce framework on top of it.

Used coroutine-based web server and batch requests in order to handle required RPS on a small number of servers and not to overload other services.

This feature enabled the frontend team to log any client-side event (usually JS code in a browser) and plot number of any events on clients in real time.

**Mail.ru Group, Tarantool**

02.2016-12.2016 | Software Engineering Intern

Tarantool is an in-memory NoSQL database implemented in C with some C++.

Implemented a proof of concept version of SQL in Tarantool. We combined SQLite parser and execution engine with Tarantool internal structures (B+\*-tree). Fixed some bugs in Tarantool test engine.

Added intrusive heap to Tarantool data structures library.

## PERSONAL PROJECTS

**Service to find celebrities looking like you**

I implemented HNSW-kNN index in C++ using gRPC to handle requests to the index.

**Search engine for cooking website**

Crash-safe search engine with search results ranking and spell checker for popular Russian cooking recipe website.

## COMPETITIVE PROGRAMMING

**Russian National Olympiad in Informatics**

2012 | prizewinner

**Russian National Olympiad in Informatics**

2011 | prizewinner