Svyatoslav Feldsherov

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KEY SKILLS

SWE · Backend · Concurency
Algorithms · Distributed systems
DevOps

LANGUAGES

C++ · Python · Java

TECHNOLOGIES

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

EDUCATION

MOCSOW 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. 1000 microservices, 1 billion requests per second processed by our component.
C++ for data plain, Python for control plain, and tests/infrastructure.
Main goals are 99.999% availability achieved, Http transport replaced with faster implementation, distributed tracing over our framework speedup from minute to 1-3sec per request.

Yandex Search
11.2018-06.2020 | Software Engineer
Worked on Search Infrastructure team. C++, Python, grpc, networking. Design and implement SDCH support at Search Engine Result Page. C++ backend with custom SDCH implementation.
Improve search query preprocessing pipeline. Reimplement part of business logic with C++, fix some architectural problems, a bit speed up search

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

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