Mikhail Surin

Curriculum Vitae

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Education

2013–2017 **Bachelor of Computer Science**, *Moscow Institute of Physics and Technology (State University)*, Russia, Dolgoprudny.

2017–2018 **Master of Computer Science**, *Moscow Institute of Physics and Technology (State University)*, Russia, Dolgoprudny.

Experience

May 2022 - Now **Senior software engineer**, *Yandex*, Moscow.
YDB query processor team.

- ○ worked on query compiler, optimizer and query execution runtime
- ○ reworked predicate pushdown logic
- ○ reworked query execution model for OLTP pipeline
- ○ Key technologies: C++, actor model,

Sept. 2019 - May 2022 **Senior software engineer**, *Yandex*, Moscow.
yandex base search team.

Key qualifications & responsibilities:
- ○ developed and maintained lower levels of search runtime, search index build pipeline and related infrastructure.
- ○ designed and developed low latency network storage for search index with erasure coding support.
- ○ designed and developed control plane for network storage with support of node/data evacuation and load balancing
- ○ led team of 3 developers
- ○ Key technologies: C++, MapReduce, Linux AIO, io_uring

Sept. 2018 - Sept. 2019 **Software engineer**, *Yandex*, Moscow.
yandex base search team.

May 2017 – Sept. 2018 **Software engineer**, *Yandex*, Moscow.
news.yandex.com infrastructure team.

Key qualifications & responsibilities:
- ○ developed and maintained news scraping robot;
- ○ designed and developed distributed scheduler for checking news availability;
- ○ designed and developed fault tolerant storage for news documents;
- ○ designed fault-tolerant stream clustering service
- ○ Key technologies: C++, Zookeeper, Redis, MapReduce;

Oct. 2016 – May 2017	**Junior software engineer**, *Yandex*, Moscow. news.yandex.com infrastructure team.
July 2016 – Sept. 2016	**Software engineering intern**, *Yandex*, Moscow. news.yandex.com infrastructure team.

Awards

2014	IMC – Second prize (107th place)
2014–2015	ACM ICPC Finals – 28th place

Languages

Russian	Native speaker
English	B2
Spanish	B1

Extra

- 2016-2018 – student at Yandex School of Data Analysis
- 2017 - Jepsen bindings for verification of serializable snapshots
- 2020 - Data structures for consensus algorithms on persistent memory