

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

- July 2016 – **Software engineering intern**, *Yandex*, Moscow.
Sept. 2016 news.yandex.com infrastructure team.
- Oct. 2016 – **Junior software engineer**, *Yandex*, Moscow.
May 2017 news.yandex.com infrastructure team.
- May 2017 – **Software engineer**, *Yandex*, Moscow.
Sept. 2018 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;

- Sept. 2018 – **Software engineer**, *Yandex*, Moscow.
Sept. 2019 yandex base search team.
- Sept. 2019 – **Senior software engineer**, *Yandex*, Moscow.
May 2022 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

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

- reworked predicate pushdown logic
- reworked query execution model for OLTP pipeline
- Key technologies: C++, actor model

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