

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.
- 2017–2020 **Master of Computer Science**, *Moscow Institute of Physics and Technology (State University)*, Russia, Dolgoprudny.

Experience

- May 2022 – **Senior software engineer**, *Yandex*, Moscow.
Now YDB query processor team.
Duties: worked on query compiler, optimizer and query execution runtime
Achievements:
 - reworked predicate pushdown logic
 - reworked query execution model for OLTP pipelineKey technologies: C++, actor model
- Sept. 2019 – **Senior software engineer**, *Yandex*, Moscow.
May 2022 yandex base search team.
Duties:
 - developed and maintained lower levels of search runtime, search index build pipeline and related infrastructure.
 - capacity planning of lower levels of search runtime.
 - led team of 3 developersAchievements:
 - 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 balancingKey technologies: C++, MapReduce, Linux AIO, io_uring
- Sept. 2018 – **Software engineer**, *Yandex*, Moscow.
Sept. 2019 yandex base search team.
- May 2017 – **Software engineer**, *Yandex*, Moscow.
Sept. 2018 news.yandex.com infrastructure team.
Duties: developed and maintained news scraping robot
Achievements:
 - designed and developed distributed scheduler for checking news availability;
 - designed and developed fault tolerant storage for news documents;
 - designed fault-tolerant stream clustering serviceKey technologies: C++, Zookeeper, Redis, MapReduce;

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