

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.
Thesis: Jepsen bindings for verification of serializable snapshots
- 2017–2020 **Master of Computer Science**, *Moscow Institute of Physics and Technology (State University)*, Russia, Dolgoprudny.
Thesis: Data structures for consensus algorithms on persistent memory

Experience

- 2022 – Now **Senior software engineer**, *Yandex*, Moscow.
YDB (is an open-source newsql dbms) query processor team.
Duties: worked on query compiler, optimizer and query execution runtime
Achievements:
 - reworked predicate pushdown logic
 - implemented automatic secondary indices usage
 - reworked query execution model for OLTP pipeline
 - added support of 'returning' keyword
 - implemented cpu isolation for user workloadsTechnologies: C++, actor model, Python, Go
- 2019 – 2022 **Senior software engineer**, *Yandex*, Moscow.
yandex base search team.
Duties:
 - developed and maintained lower levels of search runtime, a search index build pipeline and related infrastructure.
 - capacity planning of lower levels of search runtime.
 - led a team of 3 developersAchievements:
 - optimized the document storage which enabled us to grow the search base by 100%
 - reworked an inverted index build pipeline
 - designed and developed a low latency network storage for the search index with erasure coding support.
 - designed and developed a control plane for network storage with support for node/data evacuation and load balancingKey technologies: C++, MapReduce, Linux AIO, io_uring, Python, Go
- 2018 – 2019 **Software engineer**, *Yandex*, Moscow.
yandex base search team.
- 2017 – 2018 **Software engineer**, *Yandex*, Moscow.
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
- 2016 – 2017 **Junior software engineer**, *Yandex*, Moscow.
news.yandex.com infrastructure team.
- 2016 – 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