Nikita Sivukhin

Tech Lead

Languages	Russian (native), English	**E-mail**	sivukhin.nikita@yandex.ru
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WORK EXPERIENCE

now
2022 dec — **ShareChat/Moj, core recommendation system**
sharechat.com
- Tech lead at the Recall team
- Development of cost-efficient ANN-index with 100k RPS throughput and p99 latency below 50ms
- Development of cost-efficient model serving layer based on `tensorflow-serving`
- Migration of distributed FM training pipeline written in Go from `BigTable` to `Scylla`
- Ownership of the recall inference layer in large recommendation system

2022 dec
2021 may — **Kontur.Focus, business partner analysis project**
kontur-inc.com/focus
- Development of the subsystem for companies connection analysis. Core microservice — company graph index with edge pattern matching capabilities
- Implemented several streaming pipelines for data processing from different unreliable sources

2021 may
2017 sept — **Kontur.EDI, electronic document interchange provider**
- Development and maintanence of the service for electronic document interchange with focus on reliability, flexibility and speed of message delivery
- Performed migration from legacy even-sourcing subsystem which involved multi-terabyte data migration and business logic refinements
- Implemented subsystem for automatization of new parties connection process
- Several components I contributed in were open-sourced: GroboContainer.NUnitExtensions, GrobExp.Compiler, cassandra-distributed-task-queue

EDUCATION & ACHIEVEMENTS

2022 — **Create pleasant visualization for HITB Pro CTF 2022 contest**
- Working with WebGL to create beauty visualization of CTF contest progress
- Source code available on GitHub

2020 — **Work with organizers of ICFPC2020 online contest**
- Integration with AWS cloud to provide additional resources for horizontal scaling of bots battles calculation process

2018 - 2020 — **Master's degree of Mathematics and Computer science**
Ural Federal University, Russia
- Master's thesis: Construction of Sparse Suffix Trees and LCE Indexes in Optimal Time and Space (arXiv pre-print)

2014 - 2018 — **Bachelor's degree of Mathematics and Computer science**
Ural Federal University, Russia
- Bachelor's thesis: Compressed multiple pattern matching (arXiv pre-print)

2016, 2018 — **ACM ICPC World Final, Silver and Bronze medal**
- 8th place, Ural Federal University team, final scoreboard: icpc.global
- 13th place, Ural Federal University team, final scoreboard: icpc.global

2014 — **International Olympiad in Informatics, Gold medal**
- 23rd place, final scoreboard: stats.ioinformatics.org

SKILLS

- Solid knowledge of `Go` language
  - See open source projects: govanish, gok8sproxy, godjot

- Solid experience with `Cassandra/Scylla`, `Kafka/RedPanda`, `Elasticsearch`, `Redis`
  - E.g., identified correctness bug in `Cassandra` thrift protocol after production incident: CASSANDRA-14812

- Confident use of `Kubernetes` and `Helm`
  - Optimized costs for `k8s@1.24` in GKE with `HPA` tuning and `topology-aware` routing

- Passioned about algorithms and data structures, especially compression and compressed data structures
  - Actively participated in competitive programming contests
  - Conducted scientific research focused on succinct data structures and compression algorithms

- Four years of experience and very strong understanding of `C#` language and `.NET` ecosystem

- Solid understanding of production `RecSys` components, especially recall layer