

Nikita Sivukhin

Tech Lead

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WORK EXPERIENCE

now	ShareChat/Moj, core recommendation system
2022 dec	sharechat.com <ul style="list-style-type: none">- Development of cost-efficient ANN-index with 100k RPS throughput and p99 latency below 50ms- Development of cost-efficient model serving layer based on <code>tensorflow-serving</code>- Migration of distributed FM training pipeline written in Go from <code>BigTable</code> to <code>Scylla</code>- Ownership of the recall inference layer in large recommendation system
2022 dec	Kontur.Focus, business-partner analysis product
2021 may	kontur-inc.com/focus <ul style="list-style-type: none">- Development of a high-performance and memory-efficient subsystem for connection analysis. The core component is the company graph index written in <code>C#</code> with pattern matching search support- Implemented an in-house stream processor for easy and declarative definition of pipelines. The engine was written in <code>C#</code> and supported multi-core processing, state checkpoint and LINQ-style DSL- Implemented queue on top of the key-value DB for the durable processing of unreliable data source
2021 may	Kontur.EDI, electronic document interchange provider
2017 sept	<ul style="list-style-type: none">- Development and maintenance of the service for electronic document interchange with focus on reliability, flexibility and speed of message delivery- Migrated legacy even-sourcing subsystem which involved live multi-terabyte intelligent data migration and business logic refinements- Implemented both back-end and front-end components for a subsystem that automates the process of connecting new clients- Some components I contributed in were open-sourced: GrobExp.Compiler, distributed-task-queue

EDUCATION & ACHIEVEMENTS

2022	Visualized HITB Pro CTF 2022 contest (GitHub) <ul style="list-style-type: none">- Implemented visualization with plain <code>three.js</code>- Implemented shader for Voronoi-diagram visualization (interior of a cell)
2020	Worked on ICFPC2020 online contest infrastructure <ul style="list-style-type: none">- Integrated the contest system with AWS cloud to provide additional resources for the horizontal scaling of bot battles
2018 - 2020	Master's degree of Mathematics and Computer science <i>Ural Federal University, Russia</i> <ul style="list-style-type: none">- Thesis: Construction of Sparse Suffix Trees and LCE Indexes in Optimal Time and Space (arXiv)
2014 - 2018	Bachelor's degree of Mathematics and Computer science <i>Ural Federal University, Russia</i> <ul style="list-style-type: none">- Joint program with Yandex School of Data Analysis (ML developer track)- Thesis: Compressed multiple pattern matching (arXiv)
2016, 2018	ACM ICPC World Final, Silver and Bronze medal <ul style="list-style-type: none">- 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 <ul style="list-style-type: none">- 23rd place, final scoreboard: stats.ioinformatics.org

SKILLS

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- Solid knowledge of Go language (see open source projects: [govanish](#), [gok8sproxy](#), [godjot](#))
 - Solid experience with `Cassandra`/`Scylla`, `Kafka`/`RedPanda`, `Elasticsearch`, `Redis`
 - 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
 - Four years of experience and very strong understanding of `C#` language and `.NET` ecosystem
 - Knowledge of ML concepts: tabular data, NLP, RecSys (from Yandex.Dataschool courses and ShareChat)
 - Free use of many tools for daily routines: `Python`/`Jupyter` notebooks, `Unix` tools, `docker` / `docker-compose`
 - One year of experience as a full-stack engineer working with `Typescript`, `React` and `webpack`
 - Solid knowledge of `C++` from university courses, scientific work and competitive programming contests
 - See implementation of succinct Aho-Corasick algorithm: [Bitbucket](#)