

# Nikita Sivukhin

## Tech Lead

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		<b>GitHub</b>	<a href="https://github.com/sivukhin">sivukhin</a>

## WORK EXPERIENCE

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

## EDUCATION & ACHIEVEMENTS

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2022	<b>Visualized HITB Pro CTF 2022 contest (<a href="#">GitHub</a>)</b> <ul style="list-style-type: none"><li>- Implemented visualization with plain <code>three.js</code></li><li>- Implemented shader for Voronoi-diagram visualization (interior of a cell)</li></ul>
2020	<b>Worked on ICFPC2020 online contest infrastructure</b> <ul style="list-style-type: none"><li>- Integrated the contest system with AWS cloud to provide additional resources for the horizontal scaling of bot battles</li></ul>
2018 - 2020	<b>Master's degree of Mathematics and Computer science</b> <i>Ural Federal University, Russia</i> <ul style="list-style-type: none"><li>- Thesis: Construction of Sparse Suffix Trees and LCE Indexes in Optimal Time and Space (<a href="#">arXiv</a>)</li></ul>
2014 - 2018	<b>Bachelor's degree of Mathematics and Computer science</b> <i>Ural Federal University, Russia</i> <ul style="list-style-type: none"><li>- Joint program with <a href="#">Yandex School of Data Analysis</a> (ML developer track)</li><li>- Thesis: Compressed multiple pattern matching (<a href="#">arXiv</a>)</li></ul>
2016, 2018	<b>ACM ICPC World Final, Silver and Bronze medal</b> <ul style="list-style-type: none"><li>- 8th place, Ural Federal University team, final scoreboard: <a href="#">icpc.global</a></li><li>- 13th place, Ural Federal University team, final scoreboard: <a href="#">icpc.global</a></li></ul>
2014	<b>International Olympiad in Informatics, Gold medal</b> <ul style="list-style-type: none"><li>- 23rd place, final scoreboard: <a href="https://stats.ioinformatics.org">stats.ioinformatics.org</a></li></ul>

## 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
  - More than five 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](#)