Nikita Sivukhin Staff Engineer

Duan Ling	Stan Engineer				
Languages	Russian (native), English	E-mail	sivukhin.work@gmail.com		
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WORK EXPERIENCE		GitHub	sivukhin		
now	${f ShareChat/Moj,\ core\ recommendation\ system}$				
2022 dec	e sharechat.com				
	- 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	Kontur.Focus, business-partner analysis product				
2021 may	kontur-inc.com/focus				
Ĵ	 Development of a high-performance and memory-efficient subsystem for connection analysis core component is the company graph index written in C# with pattern matching search sup Implemented an in-house streaming library for easy and declarative definition of pipelines engine was written in C# and supported multi-core processing, state checkpoint and LINQ-style. Implemented queue on top of the key-value DB for the durable processing of unreliable data 				
2021 may	Kontur.EDI, electronic document interchange provider				
2017 sept	- Development and maintanence 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 mi- gration and business logic refinements				
	- Implemented both back-end and fro of connecting new clients	nt-end component	s for a subsystem that automates the process		
	- Some components I contributed in v	were open-sourced:	: GrobExp.Compiler, distributed-task-queue		

Education & Achievements

2022	Visualized HITB Pro CTF 2022 contest (GitHub)			
	- Implemented visualization with plain three.js			
	- Implemented shader for Voronoi-diagram visualization (interior of a cell)			
2020	Worked on ICFPC2020 online contest infrastructure			
	- 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			
	Ural Federal University, Russia			
	- Joint program with Yandex School of Data Analysis (ML developer track)			
	- 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			
	Ural Federal University, Russia			
	- Thesis: Compressed multiple pattern matching (arXiv)			
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			
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SKILLS

- 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 / shell scripts, docker
- 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