Sergey Slotin

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EXPERIENCE

April '19 – present | YANDEX
Machine Learning Engineer, Search
– Working on image search quality. Nothing more to say here yet.
– Stack: C++, Python, TensorFlow, CatBoost

July '18 – April '19 | TINKOFF
Deep Learning Engineer, NLP and ASR
– Led the development of a retrieval-based general conversational chatbot.
– Developed a novel transfer learning approach for intent classification.
– Worked on language modelling and ensemble methods for speech recognition.
– Optimized training and inference of machine learning models (mostly neural networks).
– Stack: Python, C++, PyTorch, TensorFlow

September '18 – present | TINKOFF GENERATION
Teacher, Deep Learning and Algorithms
– Teaching and writing materials for 4 CS/ML courses for high school and undergrad students.
– Coordinating work of other teachers.
– The algorithms department currently has ~120 students, ~30 of whom are ROI finalists.

September '17 – May '18 | 1C EDUCATIONAL CENTER
Teacher, Algorithms
– Mentored a group of ~15 gifted high school kids.
– 5 of my students qualified for the National Olympiad, 3 returned with medals.

TECH STACK

Expert:	Python, C++, Linux (Debian family), PyTorch, SciPy, NumPy, pandas, NLTK, matplotlib, Sage, Sacred, Docker, git, HTML, CSS, LaTeX
Intermediate:	C, Golang, bash, Cython, pybind11, CUDA, x86 assembly, SSE, TensorFlow, Keras, Horovod, CatBoost, asyncio, PostgreSQL, MongoDB, Subversion
Basic:	Haskell, MPI, OpenCL, OpenMP, Numba, Eigen, Bokeh, XGBoost, LightGBM, k8s, AllenNLP, SpaCy, bs4, Selenium, JavaScript, jQuery, Django, Flask, Jinja2, PHP

DOMAIN KNOWLEDGE

Expert:	deep learning, natural language processing, information retrieval, language modelling, machine translation, speech recognition, transfer and multi-task learning, computational graphs, computer science
Intermediate:	speech synthesis, reinforcement learning, generative modelling, Bayesian deep learning, game theory, decision trees, data visualization, compilers, parallel computing, GPU programming
Basic:	computer vision, numerical linear algebra, functional programming, low-level programming, linguistics, web development
Languages:	Russian (native), English (fluent, C1), German (basic, A2)

COMPETITIVE PROGRAMMING

- Russian Olympiad in Informatics: 65th in '16 and 25th in '17.
- Moscow Open Olympiad in Informatics: 58th in '16 and 2-4th in '17.
- Achieved CodeForces[1] rating of 2315 while in high school, which is 99th percentile and roughly equivalent to IOI high silver.
- Occasionally contributing problems for CodeForces rounds and minor local contests.

[1] Popular competitive programming website. codeforces.com/profile/sslotin

EDUCATION

2019—... | Yandex School of Data Analysis
Machine Learning Developer

2019—2021 *(expected)* | Moscow Aviation Institute
Applied Mathematics and Informatics

2017—2019 | Moscow Institute of Physics and Technology
Applied Mathematics and Informatics

2015—2017 | Moscow School 179[2]
Engineering

WORKSHOPS

August '18 | Deep|Bayes
School on Bayesian deep learning

February '18 | DeepHack.Babel
Workshop on neural machine translation

WRITING

March '18 | Semi-Supervised Neural Machine Translation with Language Models
Association for Machine Translation in the Americas 2018, LoResMT workshop

August '17 — *present* | Tutorial series on algorithms (in Russian)
I publish my lecture notes on computer science here.
It is 353547 characters long when converted to markdown.

TEACHING

- *Introduction to Algorithms*, 1C Educational Center; fall '17, spring '18
- *Advanced Algorithms*, 1C Educational Center; fall '17, spring '18
- *Algorithms*, Tinkoff Generation; fall '18, **spring '19**
- *Deep Learning*, Tinkoff Generation; fall '18, **spring '19**
- *Machine Learning*, Tinkoff Generation; fall '18, **spring '19**
- *Machine Learning in Dialogue Systems*, Tinkoff Fintech; fall '18, **spring '19**
- *Deep Learning*, UniverSum; July '18
- *Algorithms*, Moscow Region ROI training camp; February '18
- *Guest lecture on GANs*, GoTo School; August '18

MISC.

February '18 — November '18 | MIPT DL Club
Co-organizer
Student-run reading club on deep learning

February '18 | 2nd place on DeepHack.Babel
Hackathon on machine translation

March '17 — *present* | Algorithms implementations library
Minimalistic C++ implementations of ~30 algorithms frequently used in competitive programming.
(This is not representative of how I write code for real projects.)

Hobbies / irrelevant skills: chess, poker, board games, computer strategy games, cinema, design, music, guitar, piano, quantum computing, computer algebra

[2]Was named the best school of Moscow on my graduation year.