



Alexander Smirnov

- May 21, 1999
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Languages

- Russian
- English

Working Experience

- 05.2021 – now **Data Scientist** Ten Square Games
Researching & implementing in-game items recommendations
`python` `recommender systems`
- 08.2020 – 04.2021 **Recommender Systems Engineer** IT Service, startup
Researching, evaluating and ensembling different approaches for building news & videos recommender systems.
Extracting training data from logs. Inventing new logs to collect.
Solving problems such as cold start, data sparsity, instant users' actions influence on further recommendations.
Deploying solution to production using microservice architecture.
`python` `recommender systems` `matrix factorization`
`microservices` `high load` `clickhouse` `redis` `S3` `mysql`
`mongodb` `flask` `docker` `gitlab CI` `k8s`

Internships

- 09.2019 – 12.2019 **Machine Learning Intern** JetBrains
Predicting core properties (type, carbonate, ruin, saturation) using core samples images.
Deep learning was used to detect properties; zones were highlighted using segmentation algorithms.
`research` `python` `tensorflow` `CV` `segmentation`
- 07.2019 – 08.2019 **Machine Learning Intern** Belkasoft
Collecting data and train algorithm to find pictures that contain circles and arrows on them.
`python` `tensorflow` `CV` `object detection` `C#`












Education

Study

- 2017 – now **Bachelor Studies** Saint Petersburg State University
Software and Administration of Information Systems, Department of Information and Analytical Systems
Bachelor's Thesis Department of Information and Analytical Systems
A hybrid approach for news recommender system using optimization methods
Coursework Thesis Department of Information and Analytical Systems
Automatic core samples classification
- 2014 – 2017 **Secondary education** Physics and Mathematics Lyceum No. 239
Best Physics and Mathematics Lyceum in Russia

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Skills

	Linux	<div><div></div><div></div><div></div><div></div></div>
	▸ arch, i3	
	▸ vim, zsh	
	Python	<div><div></div><div></div><div></div><div></div></div>
	▸ scikit-learn, matplotlib	
	▸ nltk, gensim	
	▸ tensorflow	
	▸ surprise	
	▸ flask	
	▸ jupyter notebook	
	Recommender Systems	<div><div></div><div></div><div></div><div></div></div>
	▸ collaborative filtering	
	▸ content-based filtering	
	▸ session filtering	
	▸ cold start	
	▸ matrix factorization	
	Machine Learning	<div><div></div><div></div><div></div><div></div></div>
	▸ supervised learning	
	▸ clustering	
	▸ dimensionality reduction	
	▸ data visualization	
	▸ EDA	
	Development	<div><div></div><div></div><div></div><div></div></div>
	▸ gitlab, CI / CD	
	▸ k8s	
	▸ microservices	
	DBMS	<div><div></div><div></div><div></div><div></div></div>
	▸ MySQL	
	▸ MongoDB	
	▸ ClickHouse	
	▸ Redis	
	▸ Amazon S3	
	▸ Oracle	
	Web Development	<div><div></div><div></div><div></div><div></div></div>
	▸ HTML, CSS, JS	
	▸ JQ, AJAX, bootstrap	
	.NET	<div><div></div><div></div><div></div><div></div></div>
	▸ C#	
	▸ F#	
	Multi-agent Systems	<div><div></div><div></div><div></div><div></div></div>
	Java	<div><div></div><div></div><div></div><div></div></div>
	▸ android development	
	C++	<div><div></div><div></div><div></div><div></div></div>

Education

Online courses

2021 – now	Unsupervised Learning	MIPT
	Clustering, matrix factorization, topic modelling, outliers searching and visualizations	
2020 – now	Introduction to Recommender Systems	University of Minnesota
	Non-Personalized and Content-Based recommenders	
2020 – now	Algorithms. Theory and Practice. Methods	Computer Science Center
	Algorithms introduction	
2020 – now	Programming in C++	Computer Science Center
	Main concepts of C++	
2021	Supervised Learning	MIPT
	Supervised learning models: linear models, decision trees, models composition	
2020	Web Development for Beginners	ITC
	Basics of web development	
2019	Mathematics and Python	MIPT
	Mathematics and python libraries applied in data analysis	
2019	Introduction to TensorFlow	deeplearning.ai
	Examples of how to work with TensorFlow library	

Offline courses

2021	Forum on Mathematics and AI	MIPT
	5-day intensive forum filled with lectures on sota AI researches	
2016	Student STAR Program-Russia CoE track	EMC
	Project management course	
2015 – 2016	Samsung IT School	Samsung
	Android development course	

Books

2021	The Lean Startup	Eric Ries
	Successful startup launching guideline	
2020	Linux Fundamentals	Paul Cobbaut
	Introduction to using Linux from the command line	

Projects

2020	Git Server My own private git server hosted on raspberry pi
2020	Tetris Terminal tetris game for *nix operating system
2019	Emoji Communicator Visualizing text with emoji letters
2019	Siamese Neural Networks Implementation of siamese network for one-shot learning task
2019	Classifying Browser Extension Browser extension that allows you to classify site if it is suitable for children to watch
2018 – 2019	Android Meme Application An android app that show memes depending on your preferences
2018 – 2019	Custom File Manager Illustrates a bunch of programming patterns and optimization techniques

Achievements

2019	2nd place	PhotoLab PhotoHack
2018	Finals	VK Hackathon

Hackathons

2021	MIPT Forum Hackaton	Moscow
	Classifying quiz questions if they written by professionals or not	
2020	TrudHack 2	Saint Petersburg
	CV parser	
2019	Tender Hack.Spb	Saint Petersburg
	Search algorithm	
2019	PhotoLab PhotoHack	Veliky Novgorod
	Program that help users to express themselves in chats	
2019	QuantNet	Saint Petersburg
	Trading algorithm	
2019	SPbU GameJam 2019	Saint Petersburg
	Game	
2018	VK Hackathon	Saint Petersburg
	Entertaining app	