



Alexander Smirnov

- May 21, 1999
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Languages

- Russian ● ● ● ● ●
- English ● ● ● ● ●

Working Experience

08.2020 –
now
5 months

Recommender systems engineer

IT Service, startup

Researching different approaches for building news & videos recommender systems and deploying them to production. These modules were researched, written, deployed and unioned into hybrid recommender:

- Collaborative filtering
- Content-based filtering
- Session filtering
- Popularity filtering

Microservice architecture was used.

python recommender systems matrix factorization
microservices high load clickhouse redis S3 MySQL
mongoDB flask docker gitlab CI k8s

Internships

09.2019 –
12.2019
4 months

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.

python CV

07.2019 –
08.2019
2 months

Machine learning intern

Belkasoft

Collecting data and train algorithm to find pictures that contain circles and arrows on them.

python CV 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

Alexander Smirnov

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>
	▸ numpy, scipy, matplotlib	
	▸ scikit-learn, 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

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++.	
2020 – now	Training on labeled data	MIPT
	Supervised learning models: linear models, decision trees, models composition.	
2020	Linux Fundamentals	Paul Cobbaut
	Introduction to using Linux from the command line.	
2020	Web development for beginners	ITC
	Basics of web development.	
2019	Mathematics and python for data analysis	MIPT
	Refresh mathematics knowledge applied in data analysis and review python libraries that are related.	
2019	Introduction to TensorFlow	deeplearning.ai
	Examples of how to work with TensorFlow library.	

Offline courses

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: How Today's Entrepreneurs Use Continuous Innovation to Create Radically Successful Businesses	Eric Ries
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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 It illustrates a bunch of programming patterns and optimization techniques.

Achievements

2019	2nd place	PhotoLab PhotoHack
2018	Finals	VK Hackathon

Hackathons

2020	TrudHack 2 CV parser	Saint Petersburg
2019	Tender Hack.Spb Search algorithm	Saint Petersburg
2019	PhotoLab PhotoHack Program that help users to express themselves in chats	Veliky Novgorod
2019	QuantNet Trading algorithm	Saint Petersburg
2019	SPbU GameJam 2019 Game	Saint Petersburg
2018	VK Hackathon Entertaining app	Saint Petersburg