Alexander Smirnov

👤 May 21, 1999

✉ Russia, Saint Petersburg

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Languages ————

🇷🇺 Russian	● ● ● ● ●
🇬🇧 English	● ● ● ● ○

Working Experience

08.2020 – now · **Recommender systems engineer** — IT Service, startup

Researching different approaches for builiding news & videos recommender systems and deploying it to production.

These modules were researched, created, unioned, and deployed into hybrid recommender:

- Collaborative recommender
- Content-based recommender
- Last viewed items recommender
- Items' features booster recommender

During research `jupyter notebook` is being used, while production code written in `python`. `docker` is user for deploying.

Internships

08.2019 – 12.2019 · **Machine learning intern** — JetBrains

Predicting core properties (type, carbonate, ruin, saturation) using core samples images.

Deep learning was used to detect properties and zones were high-lighted using segmentaion.

`jupyter notebook` was used for research, while data handling & model training code was written in `python`.

07.2019 – 08.2019 · **Machine learning intern** — Belkasoft

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

`jupyter notebook` was used for research, production code was written in `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

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Skills ━━━━━━━━━━━

- 🐧 **Linux** ● ● ● ○
  - ▸ Arch, i3
  - ▸ vim, zsh
- 🐍 **Python** ● ● ● ○
  - ▸ NumPy, SciPy, Matplotlib
  - ▸ Scikit-learn, Tensorflow
- ⚙ **Data science** ● ● ○ ○
  - ▸ Recommender systems
  - ▸ Data collection
  - ▸ Data visualization
  - ▸ EDA
  - ▸ Performance metrics
- 🗄 **Databases** ● ● ○ ○
  - ▸ MySQL
  - ▸ MongoDB
  - ▸ ClickHouse
  - ▸ Redis
  - ▸ Amazon S3
- 🌐 **Web development** ● ● ○ ○
  - ▸ HTML, CSS, JS, PHP
  - ▸ JQ, AJAX, Bootstrap
- ☕ **Java** ● ● ○ ○
  - ▸ Android development
- ⊞ **.NET** ● ● ○ ○
  - ▸ C#
  - ▸ F#
- 🤝 **Multi-agent system** ● ● ○ ○
- ⓒ **C++** ● ○ ○ ○

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++.	
2019 – 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.	

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About Me ————

♥ programming

Projects

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**	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	