

# **Alexander Smirnov**

Amay 21, 1999

🗹 Russia, Saint Petersburg

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# Languages

Russian

**English** 



## **Working Experience**

05.2021 – **Data Scientist** Ten Square Games

now Researching & implementing in-game items recommendations.

*1 month* Churn prediction.

python recommender systems

08.2020 – **Recommender Systems Engineer** IT Service, startup 04.2021 Researching, evaluating and ensembling different approaches for

8 months building news & videos recommender systems.

Extracting training data from logs. Inventing new logs to collect. Solving probles such as cold start, data sparcity, instant users'

actions influence on further recommendations.

 $\label{lem:decomposition} \mbox{Deploying solution to production using microservice architecture.}$ 

python recommender systems matrix factorization microservices high load clickhouse redis S3 mySQL

mongoDB flask docker gitlab CI k8s

# **Internships**

09.2019 – Machine Learning Intern

12.2019 Predicting core properties (type, carbonate, ruin, saturation) using

4 months core samples images.

Deep learning was used to detect properties; zones were highlighted

using segmentation algorithms.

research python tensorflow CV segmentation

07.2019 – Machine Learning Intern

08.2019 — Belkasoft
Collecting data and train algorithm to find pictures that contain cir-

2 months cles and arrows on them.

python tensorflow CV object detection C#

#### **Education**

#### Study

2017 – 2021 **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 optimiza-

tion 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

# **Alexander Smirnov**

# Skills -

A Linux

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



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### **Education**

#### Online courses

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

#### 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 Android development course	Samsung

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

# Alexander Smirnov Projects

2020	Git Server
2020	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 Classifying quiz questions if they written by professi	Moscow ionals or not
2020	TrudHack 2 CV parser	Saint Petersburg
2019	<b>Tender Hack.Spb</b> Search algorithm	Saint Petersburg
2019	PhotoLab PhotoHack Program that help users to express themselves in ch	Veliky Novgorod nats
2019	<b>QuantNet</b> Trading algorithm	Saint Petersburg
2019	SPbU GameJam 2019 Game	Saint Petersburg
2018	VK Hackathon Entertaining app	Saint Petersburg