# Alexander Smirnov

- May 21, 1999
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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 highlighted 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 |

# Alexander Smirnov

## 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. | |

# Alexander Smirnov

## 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 | |