











## Taya Penskaya

 May 23, 2000  
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## Languages

 Russian  
 English



## Working Experience

- 10.2020 – now **Machine Learning Engineer** JetBrains  
Developing evaluation metrics for retrosynthetic analysis.  
Researching scientific papers and reproducing solutions.  
python pytorch bioinformatics
- 02.2019 – 04.2019 **iOS Developer Intern** Webim  
Developing messenger.  
1 month

## Education









### Study

- 2017 – 2021 **Bachelor Studies** ITMO University  
Applied Mathematics and Computer Science
- Bachelor's Thesis** ITMO ML LAB  
Detailed segmentation of a human image and generation of a new image.  
Creating GAN for generation human skeleton by text description.  
Developing algorithm for human photo detailed segmentation.  
Performing image translation with a change of human skeleton.
- Term paper** ITMO ML LAB  
STatistical Inference Relief (STIR) feature selection. The algorithm from article was implemented.
- 2014 – 2017 **Secondary education** Physics and Mathematics Lyceum No. 239  
Presidential Physics and Mathematics Lyceum.

## Projects

- 2021 **Text2Pose GAN** Pytorch  
GAN for generation body keypoints by text
- 2020 **Harser** Haskell  
Pretty-printer and interpreter for C++
- 2020 **ML labs** Python  
Labs from Machine learning course
- 2020 **MO labs** Python  
Labs from Optimization Methods course
- 2020 **Generator for translators** Java  
HWs from Translation Methods course

## Skills

	Python	<div><div></div><div></div><div></div><div></div></div>
	▸ pytorch	
	▸ scikit-learn, matplotlib	
	▸ nltk, gensim	
	▸ jupyter notebook	
	Machine Learning	<div><div></div><div></div><div></div><div></div></div>
	▸ supervised learning	
	▸ clustering	
	▸ data visualization	
	▸ EDA	
	Deep Learning	<div><div></div><div></div><div></div><div></div></div>
	▸ GAN	
	▸ CNN	
	DBMS	<div><div></div><div></div><div></div><div></div></div>
	▸ PostgreSQL	
	▸ MySQL	
	Web Development	<div><div></div><div></div><div></div><div></div></div>
	▸ HTML, CSS, JS	
	▸ React, express	
	Haskell	<div><div></div><div></div><div></div><div></div></div>
	Java	<div><div></div><div></div><div></div><div></div></div>
	C++	<div><div></div><div></div><div></div><div></div></div>

## Education

### Attended courses

2020	<b>Machine leaning</b>	ITMO ML Lab
	Introduction to machine learning algorithms	
2020	<b>DBMS</b>	ITMO
	MySQL, PostgreSQL	
2020	<b>Functional programming</b>	Serokell
	Introduction to Haskell	
2020	<b>Frontend</b>	Yandex
	JS, React	

### Online courses

2021 – now	<b>GANs</b>	DeepLearning.AI
	Build Basic Generative Adversarial Networks (GANs)	
2021	<b>Supervised Learning</b>	MIPT
	Supervised learning models: linear models, decision trees, models composition	
2019	<b>Mathematics and Python</b>	MIPT
	Mathematics and python libraries applied in data analysis	
2019	<b>Haskell course</b>	Computer Science Center
	Main concepts of Haskell	
2019	<b>Java course</b>	Computer Science Center
	Main concepts of Java	
2019	<b>C++ course</b>	Computer Science Center
	Main concepts of C++	

### Offline courses

2021	<b>Forum on Mathematics and AI</b>	MIPT
	5-day intensive forum filled with lectures on sota AI researches	

## Hackathons

2021	<b>MIPT Forum Hackaton</b>	Moscow
	Classifying quiz questions if they written by professionals or not	
2020	<b>TrudHack 2</b>	Saint Petersburg
	CV parser	
2019	<b>VkHackathon</b>	Saint Petersburg
	News recommender system	
2019	<b>Tender Hack.Spb</b>	Saint Petersburg
	Search algorithm	
2019	<b>Second place PhotoLab PhotoHack</b>	Veliky Novgorod
	Program that help users to express themselves in chats	