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Pavel Shevchuk

SWE with machine learning & algorithm skills

Education

2019–2021 **MSc CS**, *NRU Higher School of Economics/Skolkovo Institute of Science & Technology*, Moscow, joint programme.

2019–2021 **MSc CS**, *NRU Higher School of Economics/Skolkovo Institute of Science & Technology*, Moscow, joint programme.

2014– July 2019 **BS CS**, *NRU Higher School of Economics*, Moscow, Faculty of Computer Science.

2016 **ADFOCS**, *Summer school on distributed computing*, Saarbrücken.

Technical experience

Programming languages

proficiency C++, Python

some experience Java, C#, Haskell, bash

Other technologies

git, Linux (grep/sed/perl/bash, emacs), LaTeX, CMake, scikit, pytorch, vowpal wabbit, OpenCV

Work experience

2020 **Internship at Huawei**, *Moscow*, Improving the video search based on joint video-text embeddings.

2018-2019 **Developer at Yandex**, *Moscow*, Prediction of pedestrians' behaviour for the self-driving car.

July 2018-Sep 2018 **Samsung R&D institute Russia**, *Moscow*, Face antispoofing.

Q1-2 2018 **Developer internship, Yandex**, *Moscow*, Improving web search pesonalisation.

2017 **Site Reliability Engineering intern at Google**, *London, UK*, Google Analytics.

2016-2017 **DPL Lab (computer vision startup)**, *Moscow*.

2015–2016 **Teaching assistant in Computer Science course at the university**, *Moscow*.

2016 **Tutor in a summer school on programming & algorithms for school students**, *Moscow/Lipetsk*.

Projects

2020–2021 **Certified robustness for faces**.
Thesis project. Proposed a new method of training certifiably robust classifiers for facial data

2017 **SLA analysis**.
A Google intern project. I created a language for describing service-level agreements (SLAs), how they depend on other services, and checked if a service can breach its SLA given that its dependencies do not breach theirs.
Keywords: Bazel, Perfore, C++, Python, multithreading, Pyclif, Protocol Buffers

2016–2017 **Twitter sentiment analysis**.
A research project at the university, implemented different models and approaches to analysing a sentiment of English language tweets.
Keywords: Python, Tensorflow, vowpal wabbit, LSTM, C-LSTM, BoW, linear classification

2016 **Post stamps search**.
A project for a computer vision startup. Finds postmark in the database by photo. The project as whole is a Docker, which can be called via RESTful API.
Keywords: OpenCV, Python, scikit-image, Django, REST, Docker

2015 **last.fm classification**.
Web project that finds out preferences of last.fm user.
Keywords: classification, machine learning, Python, Jinja2, Web, Google App engine, Beaker cache, REST, Asynchronous
this project on github

2014–2015 **Lisp interpreter**.
I did a garbage collector here, which is a quite complicated thing.
Keywords: C++, valgrind, GNU MP, garbage collection, interpreter, programming languages
this project on github

2014 **xv6**.
Course project in making improvements for a teaching OS.
Keywords: C, parallel programming, low level
this project on bitbucket

2013 **Lyrics**.
An elegant app that displays lyrics of whatever song is playing now. (At the time no such app existed for my Windows Phone)
Keywords: C#, mobile, Windows Phone, asynchronous, REST

Achievements

2015 Northeastern Europe Regional Contest participant *link*

2015 Vekua cup award *link*

2015 VK wild-card prize - advanced to Round 3 *link*

2014 Open Olympiads in Programming 2014 - first award *link*

2014,2013 Finalist of Russian Olympiads in Informatics *link 2014 link 2015*

Languages

Russian native speaker

English proficient (IELTS 6.5)

German basic knowledge (A2)