

Pavel Shevchuk

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in [pshevchuk](#)
Moscow, Russia

SWE with machine learning & algorithm skills

Education

- 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.

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, Developed a system that predicts where pedestrians will be in up to ten seconds.
- July 2018–Sep 2018 **Samsung R&D institute Russia**, *Moscow*, Face antispoofing.
- Q1–2 2018 **Developer internship, Yandex**, *Moscow*, Improving web search personalisation.
- 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*.

Technical skills

Programming languages

proficiency C++, Python

some Java, C#, Haskell, bash
experience

Other technologies

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

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, Pycif, 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

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| 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

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| Russian | native speaker |
| English | proficient (IELTS 6.5) |
| German | basic knowledge (A2) |