

Egor Burkov

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Objective

I am a machine learning and general computer science enthusiast seeking for a short-term research engineer position to combine my interest and experience in both “**low-level**” **programming** and computer vision / ML **research** itself to maximum advantage.

Education

- 2016–2018 **MSc in Computer Science**, *Skoltech (MIT initiative)*, Moscow, Russia.
(expected) Current research topic: [Integral Image Layer for Deep NNs](#).
- 2012–2016 **BSc in Computer Science**, *The Higher School of Economics*, Moscow, Russia.
GPA: 4.74 out of 5. Many academic performance scholarships.
Thesis: [CNN-based Human Segmentation Using Background Subtraction Map](#).

Work Experience

- 2015–2016 **Software Engineer**, [VisionLabs](#).
Optimizing & parallelizing computer vision algorithms in C(++) & sometimes CUDA. Doing some research tasks, such as training CNNs, testing face detection algorithms, implementing and enhancing an algorithm from a paper. Example project: realtime face alignment on mobile devices.
[OpenCV bindings for Torch](#) open source project, sponsored by Facebook.
- 2014–2015 **Software Engineer**, *university Computer Science department*.
"Learning Management System" project for the university. Web dev in *Python + Django*.

Professional skills

- Fluent in *C, C++, Lua, Python, MATLAB*; parallel frameworks: *MPI, OpenMP, CUDA*
- Familiar with scientific frameworks: *Torch, Caffe, Theano, scikit-learn* etc.
- Good knowledge of Linux, Git; industrial & systems programming experience
- 6 years of competitive programming experience (has recently advanced to [ICPC](#) semifinals), so doing well with algorithms, data structures and efficient code

Academic interests

- Deep learning
- Computer vision
- Generative models
- Parallel architectures, GPGPU programming

Other information

- **Languages:** Russian (*native*), English (*advanced, IELTS 7.5/9*)