

# Notchenko Alexandr Vladimirovich

## Contacts

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Twitter: @ganglman

## Languages

Russian - Native

English - Fluent

## Education

M.S Information Security, BMSTU , 2007 - 2013

B.S Applied Mathematics, BMSTU , 2009 - 2014

Coursera free online education platform - Introductions to Artificial Intelligence, Machine Learning and Databases, Introduction to Algorithms e.t.c 2011 - 2013

Graduate program at Institute for Information Transmission Problems , 2013 - 2016

Neuroscience of motor control 2013-2015 (My interest shifted from Neuroscience research)

Data Analysis and Predictive Modeling 2015-2016

Graduate program on Artificial Intelligence and Machine Learning at Skolkovo Institute of Science and Technologies , 2016 - Now

## Employment

Research Assistant , Laboratory of neural structure of the brain, Research Center of Neurology, July 2011–June 2012.

Publishing firm "Corpus"

Technical Editor of Russian translation of "Steve Jobs" by Walter Isaacson. - october 2011

Scientific consultant on several other translations.

Developer recruiter for "Innova company" - several occasions from march to may of 2012

Search-Technology / Software Engineer at Wobot - september 2012 - july 2013

Software Engineer (Python) at Mirantis - august 2013 - june 2014

Deep Learning Research Engineer at Teatrall - october 2014 - january 2016

Research Engineer/Assistant in IITP laboratory "Data Analysis and Predictive Modeling" - december 2015 - Now

## Skills

Applied Scientific Research

Advanced Data Analysis

Mathematical modeling

Electro-engineering

Information Technologies:

Professional level Open-Source Software Development

Distributed Systems (Spark, Hadoop, MPI) - beginner experience

Databases (Postgres, MySQL, MSSQL, Redis, SQLite, MongoDB) - medium experience

Service development

Information Security

Programming languages:

C/C++/CUDA  $\sim$  3000 SLOC, Medium knowledge. - (Machine Learning Systems, Simple utilities, Python interfacing)

Java  $\sim$  3000 SLOC, Medium knowledge. (Machine Learning Systems)

Python  $\sim$  30000 SLOC, Professional Level. Worked with Django, Celery, Scipy / Numpy, Matplotlib e.t.c (Social network analysis, Document export systems, Content miners, Machine learning, Data filtering, Websocket apps, Crowdsourcing platform, Data visualisation, Cluster deployment system "Fuel"), Data Science applications, Jupyter Notebooks

C#  $\sim$  3000 SLOC, Medium knowledge. (GUIs for Libraries, Distributed document export system, Distributed statistics collection)

JavaScript  $\sim$  5000 SLOC, Medium knowledge. (Front-end development, Chrome extensions, Nodejs apps, Web page parsers)

Scala / Clojure  $\sim$  300 SLOC, Introductory level. (Simple programs)

Matlab  $\sim$  4000 SLOC, Experienced. (Scientific programming and Computer Vision)

## Fields of Research Interest

Computer Vision as Inverse Graphics, 3D Deep Learning, Unsupervised Learning, Bayesian Machine Learning, Robotics.

## Research and other projects

### *Community and Organization Work*

One of senior organizers of Open Data Science community - biggest Data Science professionals community in Russia (probably whole eastern Europe).

### *Recent Publications*

Notchenko, A., Kapushev, E., & Burnaev, E. (2016). Sparse 3D Convolutional Neural Networks for Large-Scale Shape Retrieval. *arXiv preprint arXiv:1611.09159*, Presented at "3D Deep Learning" workshop NIPS'16