

DENIS RYSTSOV

Status in USA
H1B

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115 Warren Ave N apt. 311
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EDUCATION M.Sc, Applied Math and Computer Science
Saint-Petersburg State University, Saint-Petersburg, Russia
Date of Graduation: May, 2010

MISC **Programming blog about distributed systems**
<http://rystov.info>
LinkedIn account
<http://www.linkedin.com/in/rystov>

EXPERIENCE **Amazon.com**
Software engineer since 10/2014
[Amazon.com](#) is the largest Internet-based retailer in the United States. I'm a part of the Checkout team where I work on the high risk customer facing legacy project, fight complexity of 10 years old codebase and resolve knotty production bugs.
Technology stack: web-development with JavaScript, Perl & Java.

Grid Dynamics
Software engineer 9/2013-4/2014
[Grid Dynamics](#) is focused on massively scalable e-commerce platforms and services. It has Macy's and Raleys among customers. I worked in the big data department and helped to design a new data processing workflow to migrate from Oracle to Hadoop.
Technology stack: Java, Hadoop stack (HDFS, Hive).

Yandex
Software engineer 5/2011-8/2013
[Yandex](#) is ranked as the 4th largest search engine worldwide and it's bigger than Google in Russia. I was a part of the department of statistics and later of the infrastructure services department. Designed external transactions for a distributed key-value storage.
Technology stack: Java, Python, internal MapReduce-like system.

Smart media	<u>Web developer</u>	2010-2011
OBS Labs	<u>Web developer (part-time)</u>	2005-2007
Motorola solutions	<u>Software engineer intern</u>	2006

ACTIVITIES / Participated in the [Papers We Love](#) meetup both as a listener and a [speaker](#).
PET Papers We Love is a community of the practitioners who love to read academic
PROJECTS

papers in order to know how to solve problems they meet in the industry.

Developed an algorithm to normalize math formula and built uniquation.com, a math search engine on top of it. The normalization algorithm supports commutativity and α -equivalence what gives more accurate search results compared to the competitors. Project is frozen.

Gave a talk on the “**Application Developer Days - 2**” two day conference in Saint-Petersburg (2011). I spoke about a parsing expression grammar and Nemerle programming language.

Developed and abandoned [Warp9](#), a reactive JS GUI library. I created it to study reactive programming and to explore how we can avoid common reactive pitfalls like memory leaks, repeated diamond shape problem & observable inconsistent state.

Designed and abandoned [Nidaba](#), a blockchain based distributed name system similar to Namecoin.

INTERESTS	Distributed systems, data processing and infrastructure/tools development
LANGUAGES	Russian, native English, professional working proficiency
HOBBIES	Traveling, hiking, unicycling and surfing