DENIS RYSTSOV

Status in USA	**Email**	**Address**
H1B	rystsov.denis@gmail.com	115 Warren Ave N apt. 311
		98109 Seattle WA USA

EDUCATION

M.Sc, Applied Math and Computer Science
Saint-Petersburg State University, Saint-Petersburg, Russia
Date of Graduation: May, 2010

MISC

Programming Blog
http://rystsov.info

LinkedIn account
http://www.linkedin.com/in/rystsov

EXPERIENCE
5 y. full time
3 y. part time

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 legacy project, fight complexity of 10 years old codebase and resolve knotty production bugs.
Technology stack: Javascript, HTML, Perl.

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 data processing workflow for a new client 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. Devised an algorithm of atomic multi key update in a key-value storage with CAS.
Technology stack: Java, Python, internal MapReduce-like system.

Smart media	Web developer	2010-2011
OBS Labs	Web developer	2005-2007
Motorola solutions	Software engineer intern	2006

ACTIVITIES /
PET
PROJECTS

Wrote the "Dynamic Plain Paxos" article. It explains how to change membership in a Paxos-based system during the reaching of consensus. The article was noticed by the Typesafe's CTO Jonas Boner.

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