DENIS YARATS

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INDUSTRY EXPERIENCE

Quora, Inc September 2013 - Present
Staff Machine Learning Engineer *Mountain View, CA*

I lead the ranking team and serve as a tech lead in Machine Learning, C++ and Distributed Systems. Maintain C++ code base by frequently exercising audits of code quality and tools.

Started and led multiple projects, such as: a distributed machine learning framework, a real time features computation service, a framework for continuous training, digest emails ranking, a topics recommendation service, CUDA and distributed implementations of matrix factorization algorithms and RNNs models for text classification.

Contributed to the following projects: release infrastructure for ranking services, a DSL for query understanding, significant speed improvements for the backend ranking services and a pseudo-DSL to define ranking models hierarchy.

At an early stage, I was the key contributor to infrastructure projects: migration of the entire infrastructure stack to EC2 VPC, EC2 cost optimization and site wide speed improvements.

In addition to my technical role, I organized Quora Haqathon (www.hackerrank.com/quora-haqathon) - an online programming competition with about 5000 participants; prepared several talks and workshops for our engineers and data scientists covering topics of Machine Learning, Deep Learning and C++; conducted numerous Machine Learning and C++ interviews.

Bing, Microsoft November 2011 - September 2013
Software Development Engineer II *Bellevue, WA*

Improved performance and accuracy of an entity conflation algorithm - a combination of crude clusterization and supervised classification.

Optimized performance of a distributed ingestion data pipeline and developed a distributed search engine to track the lifetime of entities through the ingestion data pipeline.

Yandex.Maps, Yandex April 2011 - November 2011
Machine Learning Engineer *Moscow, Russia*

Developed an online learning algorithm (logistic regression) to perform prediction of traffic on the Moscow's roads in the short term future (up to few hours).

SKILLS

Experience	Machine Learning, Deep Learning, Distributed Systems, Performance
Programming Languages	C++, Python, C#
Frameworks & Services	AWS EC2, CUDA, Theano, Caffe, Hive/SQL

ACHIEVEMENTS

ACM ICPC World Finalist 2011, Google Code Jam Europe Finalist 2008

ACADEMICS

Belarusian State University *June 2011*
B.S. and M.S in Math and Computer Science