Education

2012 – 2013 Yandex School of Data Analysis.

2009 - 2014 Master Degree in Mathematics and Mechanics, Moscow State University, Moscow, Russia, GPA - 5.0 / 5.

Projects

2017 - now RAST - a highly distributed database, https://github.com/olegtsts/RAST, https://github.com/ olegtsts/parallel_programming.

- o Project is in the designing state
- o Involves methods of constructing fault-tolerant service
- o Includes high-level multithreading techniques
- o Includes exception-safe design techniques
- o Includes safe memory release techniques
- o See the example of code here https://github.com/olegtsts/parallel_programming/blob/master/ lock-free-queue-with-olegts-ref-counting.cpp

2015-2016 Graph Analyzer Utility, Mentoring project in Higher School of Economics, https://github.com/ ilyshnikova/graph-analyzer.

- o Server-based program, which accepts time series points and detects anomalies on data series.
- o Works online with complexity O(1) on point submission.
- o Includes human html interface for controlling algorithms, which work on time series.
- o Source code: https://github.com/ilyshnikova/graph-analyzer

Git repository: https://github.com/olegtsts/

Work experience

August 2017 - Yandex, Team Leader, Senior Software Engineer, Advertising Services, Group of Autobudget.

now o The main focus is on supporting backend of automatic bidder for Yandex Direct

- o Introducing new ideas and algorithms to be implemented in automatic bidder
- o Managing an organized work of the team

July 2016 - Yandex, Senior Software Engineer, Advertising Services, Group of Projects Management.

August 2017 o Help in coordination of department-spread projects

June 2015 - Yandex, Software Engineer Intern, Advertising Services, Group of Projects Management.

July 2016 o The main task was to support automatic advertisement bidder, available for Yandex Direct users

o Managing related projects in other groups

September Yandex, Software Engineer, Advertising Services, Group of Algorithms of Fraud Detection.

2012 – June o Developing new fraud traffic filtration algorithms

2015 o Developing automatic Anomalies Detection system, which is able to notify users on anomalies in advertisement traffic

o Integrating Anomalies Detection system with Anomalies Analyzer system, that is, anomalies in advertisement traffic, which are found by Anomalies Detection system, are passed to be analyzed to Anomalies Analyzer utility

July 2012 - Yandex, Software Engineer Intern, Advertising Services.

September o Developing of backend eventually consistent consensus system

2012 o Developing of Anomalies Analyzer utility, which helps to find the reasoning slice of anomalies in advertisement traffic

Skills

Programming C++ (proficiency), Python (proficiency), Perl (proficiency), R (proficiency), java (basic), scala (interlanguages mediate), JavaScript (with JQuery), html (proficiency), SQL(proficiency).

ML tools Pandas, NumPy, SciPy, scikit-learn, matplotlib, Apache Spark, Vowpal Wabbit, word2vec.

Other tools linux, git, svn, deb packages, gdb, pdb, vim, flask, nginx, mongodb, mac os.

Languages Russian (native), English (proficiency).

Publications

- May 2015 **Journal of Mathematical Sciences**, Extension of Endomorphisms of the Subsemigroup GE2+(R) to Endomorphisms of GE2+(R[x]), Where R is a Partially-Ordered Commutative Ring Without Zero Divisors, Volume 206, Issue 6, pp 711-733 .
 - https://link.springer.com/article/10.1007%2Fs10958-015-2348-y
- September Journal of Mathematical Sciences, Endomorphisms of the Semigroup G2(r) Over Partially Ordered Commu-2014 tative Rings Without Zero Divisors and with 1/2, Volume 201, Issue 4, pp 534-551.
 - https://link.springer.com/article/10.1007/s10958-014-2010-0
 - Fundamental and Applicable Mathematics, Extension of endomorphisms of the semigroup $\operatorname{GE}_2^+(R)$ to endomorphisms of $\operatorname{GE}_2^+(R[x])$ for the lattice-ordered commutative ring R with a unit and without zero divisors., no. 6, pp 711-733.
 - http://www.ams.org/mathscinet-getitem?mr=3431839

Olympiads

- 2011 International Mathematics Competition for University Students, Prize winner (third prize).
- 2011 **Students Olympiad of Higher Algebra**, Prize winner (second prize).
- 2010 Students Olympiad of Higher Algebra, Prize winner (third prize).
- April 2009 All-Russian Olympiad of Mathematics, Prize winner (second prize).
- April 2009 Moscow State Olympiad of Mathematics, Prize winner (first prize).
- July 2008, Geometrical Olympiad in Honor of I.F.Sharygin, Prize winner (first prize), three times.
- July 2007,
- July 2006
- April 2008 All-Russian Olympiad of Mathematics, Prize winner (first prize).
- March 2008 Moscow State Olympiad of Mathematics, Prize winner (third prize).
 - April 2007 All-Russian Olympiad of Mathematics, Prize winner (second prize).
 - April 2006 All-Russian Olympiad of Mathematics, Prize winner (third prize).
- March 2006 Moscow State Olympiad of Mathematics, Prize winner (second prize).