Marina Sokol

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Personal information:
23.04.1986, married, 1 child
rue de Jardin Secret 480, Juan les Pins
French Work Permit
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Citizenship: Russian Federation

Objective

Looking for Software Engineering position in Sophia Antipolis area. Proficient with Java, capable to work with C/C++ and scripting languages. Familiar with common algorithms/data structures, machine learning, statistics. Able to work independently as well as within a team. Desire to learn new technologies and do useful products.

Professional Experience

2009–2014 (4 years)	**PhD student, INRIA** (PhD defense is expected in April 2014). Scientific partnership between INRIA and Alcatel-Lucent Bell Labs (France). Created general framework for semi-supervised learning algorithms, considered Personalized PageRank classification method as a particular case of it. Provided recommendations for the choice of the kernel parameters and labelled points. Worked on sub-linear search algorithm for most central nodes in very large graphs. Theoretical results confirmed by experiments on large graphs, particulary on P2P BitTorrent data. Also worked on Traffic Classification problem. Used Java, Hadoop, Matlab, Weka, Webgraph, C, Perl, etc.
2009–2009 (2 months)	Intern, INRIA. Topic: The Study of Wikipedia Graph Properties. Worked on web graph clustering algorithms, took part in development of Web Graph Analyzer Framework (WGA). Used Java and Java related libraries, databases.
2008–2009 (1.5 years)	Software Engineering Intern, Sun Microsystems. Worked as intern in Java ME core team. Developed software part of Java embedded demonstration project for JavaOne 2008 conference. Took part at developing JavaFX mobile. Used Java, C, JUnit, J2ME, MIDP, CLDC, Embedded systems, Linux.
2007–2007 (1 month)	Summer Intern, Yandex (Leader of Russian search system). Took part in developing of one web service. Used Java, JUnit, Hibernate, databases.

Education

2012–2014	**PhD in Computer Science, University of Nice Sophia Antipolis, France. (Continuation)** *PhD thesis:* Graph-based semi-supervised learning methods.
2009–2012	PhD in Computer Science, ENS Lyon, France. *PhD thesis:* Graph-based semi-supervised learning methods.
2007–2009	MSc in Computer Science, St. Petersburg State University, Russia. *Master thesis:* Graph clusterization using random walk model.
2003–2007	BSc in Computer Science, St. Petersburg State University, Russia. *Bachelor thesis:* Modeling of teaching recurrent neural networks.

Programming skills

Languages	Java, C/C++.
Scripting	Perl, Javascript, Python.
Technologies	J2ME, J2EE related technologies: JUnit, Swing, XML, HTML, CSS, Ant, Hibernate and others.
Tools	Matlab, Weka, Webgraph, Gephi, R.
Systems	Windows, Linux, Hadoop, Android.
Version control	Subversion, Git, Mercurial.
Office	LaTex, Package Office.

Languages

English	**Fluent**
French	B2 (TFI 2013)
Russian	Native

Publications

Published 7 international conference articles, one article in refereed international journal.
Selected articles:

- On the Choice of Kernel and Labelled Data in Semi-supervised Learning Methods, WAW 2013. K. Avrachenkov, P. Goncalves and M. Sokol.

- Classification of content and users in BitTorrent by Semi-supervised Learning Methods, IEEE IWCMC/TRAC 2012. K. Avrachenkov, P. Goncalves, A. Legout and M. Sokol.(**Best paper award**).

Activities&Awards

2011–2011	Internship at NII, Tokio. Stopped because of the earthquake.
2008–2009	Attended C++ course in the Academic Physics and Technology University of the Russian Academy of Sciences.
2006–2008	Borland Software Engineering School Passed a competitive test and interview, attended: Java, Java Advanced, Algorithms and Data Structures, Software Design and Functional Programming. Passed all attestations well. Link: (russian) http://www.amse.ru
2007–2008	Took part in an open-source project FBReaderJ: Porting FBReader (C++ e-book reader) to Java and Google Android platforms. Leading the development of the product in a team of 4 students. Link: www.fbreader.org
2006–2007	Developed the editor tool for creating neural networks and teaching them by algorithm BPTT (back-propagation through time). Link: http://www.amse.ru/courses/practice1/Sokol/NeuroNetSrc.zip
2008–2012	Attended several international winter/summer schools in computer science.
2002-2003	First place in math/physics olympiads on the local level,in top 10 on the regional level.
2003	Graduated from the high school with the Silver Medal.

Coursera

2013	Social Network Analysis. University of Michigan (89/100).
2013	Think Again: How to Reason and Argue. Duke University (86/100).
2013	The Modern World: Global History since 1760. University of Virginia (83/100).
2013	Introduction to Genetics and Evolution. Duke University (78/100).
2013	Useful Genetics. University of British Columbia (63/100).

Interests

Online education, genetics, travelling, fitness.