Anton Beloglazov, PhD

Software Engineer at Google

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INTERESTS

- Distributed systems
- Concurrency and scalability
- Platforms and infrastructure
- APIs and Web services
- Functional programming
- Algorithm design and analysis

SKILLS

Java, Scala, Python, Haskell, SQL, TypeScript, JavaScript, Bash

EDUCATION

Ph.D. in Computer Science — 02/2009 – 02/2013
The University of Melbourne, Australia

Energy-Efficient Management of Virtual Machines in Data Centers for Cloud Computing
Supervisor: Prof. Rajkumar Buyya

M.Sc. in Computer Science and Software Engineering — 09/2006 – 06/2008
Novosibirsk State Technical University, Russia

B.Sc. in Computer Science and Software Engineering — 09/2002 – 06/2006
Novosibirsk State Technical University, Russia

AWARDS

- Third-prize winner of Startup Weekend Melbourne — 06/2014
- First-prize winner of IBM MobileFirst Hackathon — 04/2014
- International Postgraduate Research Scholarship (IPRS) — 03/2009 – 03/2013
- Melbourne International Research Scholarship (MIRS) — 03/2009 – 08/2012
- Microsoft Research and EII Fellowship for 2011 EII PhD School — 09/2011
- Russian Federation Academic Scholarship — 02/2003 – 06/2008

EXPERIENCE

Software Engineer at Google, USA — 06/2015 – Present

Knowledge Graph.

Researcher at IBM Research, Australia — 02/2013 – 04/2015

Modeling and simulation of bushfire evacuation scenarios, including fire simulation, evacuee behavior modeling, agent-based traffic simulation, post-simulation analysis, and building a distributed system implementing the modeling workflow.

Research Intern at IBM Research, Australia — 06/2011 – 02/2013

Microscopic discrete-event traffic simulation applying car-following models, such as the Intelligent Driver Model (6-8 hours per week).

Research Intern at IBM Research, India — 09/2010 – 12/2010

Applying the software product line methodology to improve productivity in design and development of IT service delivery simulation models.

Web Developer at XIAG AG, Russia — 08/2008 – 02/2009

Web Developer at SB RAS Publishing, Russia — 02/2007 – 08/2008

OPEN SOURCE **CouchDB-Scala**

Purely functional Scala client for CouchDB.

OpenStack Neat

Python framework for dynamic consolidation of virtual machines with OpenStack.

OpenStack Deployment Guide

Guide and scripts for deploying OpenStack on CentOS with KVM and GlusterFS.

CloudSim

Java framework for modeling and simulation of Cloud computing systems.

Google Scholar Citations for Zotero

Zotero plugin for fetching citations from Google Scholar (> 13,000 users).

Favorite URL Opener

Google Chrome extension for opening multiple saved URLs with one click.

hamcrest-querydsl

Java library of Hamcrest matchers for Querydsl.

vim-online-thesaurus

Vim plugin for looking up words in an online thesaurus.

vim-textobj-quotes

Vim plugin providing text objects for the closest pairs of quotes of any type.

vim-textobj-punctuation

Vim plugin providing text objects for text between the cursor and punctuation.

clj-genetic

Clojure library for implementing real-coded genetic algorithms.

github.com/beloglazov

More projects.

PUBLICATIONS **Journal publications (9)**
(4K CITATIONS)

1. **Anton Beloglazov**, Mahathir Almashor, Ermyas Abebe, Jan Richter, and Kent Charles Barton Steer, "Simulation of Wildfire Evacuation with Dynamic Factors and Model Composition," *Simulation Modelling Practice and Theory*, 60, pp. 144-159, 2016.

2. **Anton Beloglazov**, Dipyaman Banerjee, Alan Hartman, and Rajkumar Buyya, "Improving Productivity in Design and Development of IT Service Delivery Simulation Models," *Journal of Service Research (JSR)*, 18(1), pp. 75-89, 2015.

3. **Anton Beloglazov** and Rajkumar Buyya, "OpenStack Neat: A Framework for Dynamic and Energy-Efficient Consolidation of Virtual Machines in OpenStack Clouds," *Concurrency and Computation: Practice and Experience (CCPE)*, 27(5), pp. 1310-1333, 2015.

4. **Anton Beloglazov** and Rajkumar Buyya, "Managing Overloaded Hosts for Dynamic Consolidation of Virtual Machines in Cloud Data Centers Under Quality of Service Constraints," *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, 24(7), pp. 1366-1379, 2013.

5. **Anton Beloglazov** and Rajkumar Buyya, "Optimal Online Deterministic Algorithms and Adaptive Heuristics for Energy and Performance Efficient Dynamic Consolidation of Virtual Machines in Cloud Data Centers," *Concurrency and Computation: Practice and Experience (CCPE)*, 24(13), pp. 1397-1420, 2012.

6. **Anton Beloglazov**, Jemal Abawajy, and Rajkumar Buyya, "Energy-Aware Resource Allocation Heuristics for Efficient Management of Data Centers for Cloud Computing," *The International Journal of Grid Computing and eScience, Future Generation Computer Systems (FGCS)*, 28(5), pp. 755-768, 2012.

7. **Anton Beloglazov**, Rajkumar Buyya, Young Choon Lee, and Albert Zomaya, "A Taxonomy and Survey of Energy-Efficient Data Centers and Cloud Computing Systems," *Advances in Computers, Marvin V. Zelkowitz (editor)*, 82, pp. 47-111, 2011.

8. Kyong Hoon Kim, **Anton Beloglazov**, and Rajkumar Buyya, "Power-Aware Provisioning of Virtual Machines for Real-time Cloud Services," *Concurrency and Computation: Practice and Experience (CCPE)*, 23(13), pp. 1492-1505, 2011.

9. Rodrigo N. Calheiros, Rajiv Ranjan, **Anton Beloglazov**, Cesar A. F. De Rose, and Rajkumar Buyya, "CloudSim: A Toolkit for Modeling and Simulation of Cloud Computing Environments and Evaluation of Resource Provisioning Algorithms," *Software: Practice and Experience (SPE)*, 41(1), pp. 23-50, 2011.

Conference publications (selected)

10. **Anton Beloglazov** and Rajkumar Buyya, "Adaptive Threshold-Based Approach for Energy-Efficient Consolidation of Virtual Machines in Cloud Data Centers," *Proceedings of the 8th International Workshop on Middleware for Grids, Clouds and e-Science (MGC 2010)*, Bangalore, India: ACM, November 29 – December 3, 2010.

11. **Anton Beloglazov** and Rajkumar Buyya, "Energy Efficient Resource Management in Virtualized Cloud Data Centers," *IEEE TCSC Doctoral Symposium, Proceedings of the 10th IEEE/ACM International Symposium on Cluster, Cloud, and Grid Computing (CCGrid 2010)*, Melbourne, Australia, May 17-20, 2010.

Technical reports

12. **Anton Beloglazov**, Sareh Fotuhi Piraghaj, Mohammed Alrokayan, and Rajkumar Buyya, "Deploying OpenStack on CentOS Using the KVM Hypervisor and GlusterFS Distributed File System," *Technical Report CLOUDS-TR-2012-3*, Cloud Computing and Distributed Systems Laboratory, The University of Melbourne, August 14, 2012.

Languages English – fluent
Russian – native speaker

References Available upon request