

Anton Beloglazov, PhD

Software Engineer and Researcher, IBM Research – Australia

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| CONTACTS | anton.beloglazov@gmail.com http://beloglazov.info | +61-45-105-23-58 Melbourne, Australia |
| INTERESTS | <ul style="list-style-type: none">• Distributed systems• Concurrency and scalability• Platforms and infrastructure• Web services• Functional programming• Algorithm design and analysis | |
| SKILLS | Java, Scala, Python, Haskell, SQL, TypeScript, JavaScript, Bash | |
| EDUCATION | Ph.D. in Computer Science <i>The University of Melbourne, Australia</i> Energy-Efficient Management of Virtual Machines in Data Centers for Cloud Computing Supervisor: Prof. Rajkumar Buyya | 02/2009 – 02/2013 |
| | M.Sc. in Computer Science and Software Engineering <i>Novosibirsk State Technical University, Russia</i> | 09/2006 – 06/2008 |
| | B.Sc. in Computer Science and Software Engineering <i>Novosibirsk State Technical University, Russia</i> | 09/2002 – 06/2006 |
| AWARDS | <ul style="list-style-type: none">• Third-prize winner of Startup Weekend Melbourne• First-prize winner of IBM MobileFirst Hackathon• International Postgraduate Research Scholarship (IPRS)• Melbourne International Research Scholarship (MIRS)• Microsoft Research and EII Fellowship for 2011 EII PhD School• Russian Federation Academic Scholarship | 06/2014 04/2014 03/2009 – 03/2013 03/2009 – 08/2012 09/2011 02/2003 – 06/2008 |
| EXPERIENCE | Researcher at IBM Research, Australia 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. | 02/2013 – Present |
| | Research Intern at IBM Research, Australia Microscopic discrete-event traffic simulation applying car-following models, such as the Intelligent Driver Model (6-8 hours per week). | 06/2011 – 02/2013 |
| | Research Intern at IBM Research, India Applying the software product line methodology to improve productivity in design and development of IT service delivery simulation models. | 09/2010 – 12/2010 |
| | Web Developer at XIAG AG, Russia | 08/2008 – 02/2009 |
| | Web Developer at SB RAS Publishing, Russia | 02/2007 – 08/2008 |
| | Web Developer at Softomate LLC, Russia | 06/2004 – 09/2004 |
| | Web Developer at WebMotion, Russia | 06/2003 – 09/2003 |
| | Web Developer, Freelance | 06/2002 – 08/2008 |

OPEN SOURCE

[OpenStack Neat](#)

A Python framework for dynamic consolidation of virtual machines with OpenStack.

[OpenStack Deployment Guide](#)

A step-by-step guide and shell scripts for deploying OpenStack on CentOS using the KVM hypervisor and GlusterFS distributed file system.

[CloudSim](#)

A Java framework for modeling and simulation of Cloud computing systems.

[Google Scholar Citations for Zotero](#)

A Zotero plugin for fetching citations from Google Scholar (13k users).

[Favorite URL Opener](#)

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

[hamcrest-querydsl](#)

A Java library of Hamcrest matchers for Querydsl.

[vim-online-thesaurus](#)

A Vim plugin for looking up words in an online thesaurus.

[vim-textobj-quotes](#)

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

[vim-textobj-punctuation](#)

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

[clj-genetic](#)

A Clojure library for implementing real-coded genetic algorithms.

[github.com/beloglazov](#)

More projects.

PUBLICATIONS (2.6K CITATIONS)

Book chapters

1. **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)*, Volume 82, Pages: 47-111, ISBN: 978-0-12-385512-1, Academic Press, USA, 2011.

Journal publications (7)

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)*, Sage Publications, USA, 2014 (in press, accepted on 27/05/2014).
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)*, John Wiley & Sons, Ltd, USA, 2014 (in press, accepted on 19/05/2014).

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)*, Volume 24, Issue 7, Pages 1366-1379, IEEE CS Press, USA, 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)*, Volume 24, Issue 13, Pages: 1397-1420, John Wiley & Sons, Ltd, USA, 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)*, Volume 28, Issue 5, Pages: 755-768, Elsevier Science, The Netherlands, 2012.
7. 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)*, Volume 23, Issue 13, Pages: 1492-1505, John Wiley & Sons, Ltd, USA, 2011.
8. 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)*, Volume 41, Number 1, Pages: 23-50, John Wiley & Sons, Ltd, USA, 2011.

Conference publications (selected)

9. **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.
10. **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

11. **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