

# Curriculum Vitae

## Anton Beloglazov, PhD student

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## EDUCATION

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### Ph.D. student in Computer Science

03/2009 — Present

*Department of Computer Science and Software Engineering, Faculty of Engineering,  
The University of Melbourne, Australia*

Thesis topic: Power and performance efficient resource management in Cloud computing.

Supervisor: Prof. Rajkumar Buyya.

The work is part of the Green IT Project (<http://www.gridbus.org/GreenIT/>). This work applies policies for continuous consolidation of virtual machines along with Dynamic Voltage and Frequency Scaling in virtualized data center in order to minimize power consumption while maintaining required Quality of Service.

I am developing a new version of CloudSim (a framework for simulation of Cloud computing infrastructures, <http://www.gridbus.org/cloudsim/>) and an extension for the framework allowing power-aware simulations.

Besides the research work, I am holding positions of a postgraduate seminar coordinator and a postgraduate representative in the department (<http://www.cs.mu.oz.au/pgrad/about/index.html>).

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### M.Sc. in Informatics and Computer Science, Computer Networks and Telecommunications

09/2006 — 06/2008

*Faculty of Automation and Computer Engineering, Novosibirsk State Technical  
University, Novosibirsk, Russia*

Master's thesis title: Research and development of the algorithms and software for the remote execution of simulation programs on multicomputers.

Average grade is 4.81 out of 5, grade percentage is 96%.

Honors: 5 out of 5 for the master's thesis. The research work is a part of a project supported by Russian Foundation for Basic Research Grant N 05-07-98003 and Russian Academy of Sciences Grant N 15.2.

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### B.Sc. in Informatics and Computer Science

09/2002 — 06/2006

*Faculty of Automation and Computer Engineering, Novosibirsk State Technical  
University, Novosibirsk, Russia*

Bachelor's thesis title: Development of a program model for studying local networking principles under the channel and physical levels standards.

Honors: 5 out of 5 for the bachelor's thesis, 10<sup>th</sup> out of 70 students in the final graduating class.

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## COMPUTER SKILLS

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- Design patterns, test-driven development, frameworks, web-development, web-services, team development.
  - Java, C/C++, C#, PHP 4/5, SQL (MySQL, PostgreSQL), XML, JavaScript, HTML, CSS.
  - Linux and Windows administration.
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## PROFESSIONAL EXPERIENCE

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### Open source projects

09/2009 — Present

- <http://code.google.com/p/google-docs-upload/> — a tool for batch upload of documents to Google Docs using GData Java API.
- <https://addons.mozilla.org/en-US/firefox/addon/14667/> — a plugin for Zotero (research sources management tool — <http://www.zotero.org/>) for auto-fetching number of citations from Google Scholar.

**Web-developer****08/2008 — 02/2009***XIAG AG, Zürich, Switzerland; Novosibirsk, Russia, <http://www.xiaq.ch/>*

Web-applications development using PHP, MySQL, PostgreSQL, Javascript, HTML, CSS (40 hours per week). I was involved in development of the following projects:

- <http://engadin.stmoritz.ch/>
- <http://www.giveawine.ch/>

Apart from that, I developed an internal tool for cron jobs monitoring and several other small applications. I also worked on improvement of the CMS and the company's core PHP framework.

**Research assistant****09/2006 — 06/2008***Laboratory of Parallel Algorithms and Structures, Supercomputer Software Department, Institute of Computational Mathematics and Mathematical Geophysics SB RAS, Novosibirsk, Russia*

Academic advisor— A/Prof. S. V. Piskunov, Ph.D., head of the laboratory.

**Programmer****02/2007 — 08/2008***SB RAS Publishing, Novosibirsk, Russia, <http://www.sibran.ru/>*

Web-site development, support, content management.

**Web-developer****06/2002 — 08/2008***Free-lance*

Web-sites development using PHP, MySQL, Javascript, HTML, CSS. About 20 projects, for example:

- <http://www.hypetravel.ru>
- <http://www.defrag.ru>
- <http://www.metaconsib.ru>

**Web-developer****06/2004 — 09/2004***Softomate LLC, Novosibirsk, Russia, <http://www.softomate.com/>*

Web-sites development using PHP, MySQL, Javascript, HTML, CSS.

**Web-developer****06/2003 — 09/2003***WebMotion, Novosibirsk, Russia, <http://www.webmotion.ru/> (no longer exists)  
Cached — <http://web.archive.org/web/20040614060411/http://webmotion.ru/>*

Web-sites development using PHP, MySQL, Javascript, HTML, CSS.

**CERTIFICATIONS****Basis of OS Linux administration****09/2007 — 02/2008***Training Center of Mathematics and Computer Science, Faculty of Applied Mathematics and Computer Science, Novosibirsk State Technical University, Novosibirsk, Russia***Information-Telecommunication Systems****11/2007 — 12/2007***Faculty of Advanced Training, Novosibirsk State Technical University, Novosibirsk, Russia***SCHOLARSHIPS AND AWARDS****Endeavour International Postgraduate Research Scholarship (IPRS)****03/2009 — 03/2012****Melbourne International Research Scholarship (MIRS)****03/2009 — 03/2012****The best presentation at the Scientific Student Conference, "NSTU Days of Science – 2008"****03/2008**

## PUBLICATIONS

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1. R.N. Calheiros, R. Ranjan, A. Beloglazov, C.A.F. De Rose, and R. Buyya, "**CloudSim: A Toolkit for the Modeling and Simulation of Cloud Resource Management and Application Provisioning Techniques**," *Software: Practice and Experience*, 2009, submitted for publication.
2. A. Beloglazov, R. Buyya, "**Power and Performance Efficient Resource Management in Cloud Computing**," in *Proceedings of IEEE Science and Engineering Graduate Research Expo 2009*, Melbourne, Australia, 2009, pp. 38-40.
3. K.H. Kim, A. Beloglazov, and R. Buyya, "**Power-aware Provisioning of Cloud Resources for Real-time Services**," in *Proceedings of the 7th International Workshop on Middleware for Grids, Clouds and e-Science*, Urbana Champaign, Illinois, USA: ACM, 2009, to be published.
4. A. Beloglazov, "**The Algorithm for the Two-level Scheduling of Parallel Jobs**," in *Proceedings of the All-Russian Science Conference of young scientists "Science. Technologies. Innovations"*, Novosibirsk, Russia, 2007, pp. 164-168.
5. A. Beloglazov, "**The System for the Remote Execution of Simulation Programs on Multicomputers**," in *Works of ICMaMG SB RAS, Series of Computer Science*, Novosibirsk, Russia, 2007, no. 7, pp. 181-186.

## CONFERENCE PRESENTATIONS

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1. A. Beloglazov, R. Buyya, "**Power and Performance Efficient Resource Management in Cloud Computing**," presented at the IEEE Science and Engineering Graduate Research Expo 2009, Melbourne, Australia, September 25, 2009.
2. A. Beloglazov, "**Improving the Algorithm for the Two-level Scheduling of Parallel Jobs**" presented at the Scientific Students Conference "NSTU Days of Science — 2008" II tour, Novosibirsk, Russia, March 14, 2008.
3. A. Beloglazov, "**Improving the Algorithm for the Two-level Scheduling of Parallel Jobs**" presented at the Scientific Students Conference "NSTU Days of Science — 2008" I tour (2<sup>nd</sup> place), Novosibirsk, Russia, March 12, 2008.
4. A. Beloglazov, "**The Algorithm for the Two-level Scheduling of Parallel Jobs**" presented at the All-Russian Science Conference of young scientists "Science. Technologies. Innovations", Novosibirsk, Russia, December 6-9, 2007.
5. A. Beloglazov, "**The System for the Remote Execution of Simulation Programs on Multicomputers**" presented at the Third Asian International School-Seminar "The Problems of Complex Systems Optimization", Bishkek, Kyrgyzstan, July 1-12, 2007.

## TEACHING EXPERIENCE

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<b>Professor's aide — "Problems and success of Grid-technologies"</b>	<b>2007</b>
<i>Faculty of Automation and Computer Engineering, Novosibirsk State Technical University, Novosibirsk, Russia</i>	
Developed syllabus and overall course structure.	
<b>Instructor — "Simulation of modeling network program systems in OMNeT++"</b>	<b>2007</b>
<i>Faculty of Automation and Computer Engineering, Novosibirsk State Technical University, Novosibirsk, Russia</i>	
Developed materials for laboratory practice.	
<b>Instructor — "Network program system implementation using COBRA"</b>	<b>2007</b>
<i>Faculty of Automation and Computer Engineering, Novosibirsk State Technical University, Novosibirsk, Russia</i>	
Developed materials for laboratory practice.	

## LANGUAGES

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- Russian — native language.
- English — fluently, academic IELTS score is 7.0.

## REFERENCES

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**Prof. Rajkumar Buyya**

*Director, Cloud Computing and Distributed Systems (CLOUDS) Lab  
Dept. of Computer Science and Software Engineering, The University of Melbourne  
ICT Building, 111, Barry Street, Carlton, Melbourne, VIC 3053, Australia  
CEO, Manjrasoft Pty Ltd, Melbourne, Australia, <http://www.manjrasoft.com/>  
Phone: +61-3-8344 1344  
E-mail: [raj@csse.unimelb.edu.au](mailto:raj@csse.unimelb.edu.au)  
URL: <http://www.buyya.com/>*

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**Norbert Schott**

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