

Vyacheslav ZHOLUDEV

PERSONAL DATA

PLACE AND DATE OF BIRTH: Saint-Petersburg, Russia | 12 August 1985
NATIONALITY: Russian
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EDUCATION

- SINCE SEP. '07 | Ph.D. student in COMPUTER SCIENCE (expected graduation in Spring 2011)
Jacobs University Bremen, Germany (<http://jacobs-university.de>)
Topic: "Versioned format-aware XML-database"
Specification and implementation of a Versioned XML-database that could be customized for a particular XML-language. Abstracting away from the notion of a file and introducing the concept of editable XML-database views
- SEP. '02 - JUN. '07 | M.Sc. with distinction in COMPUTER SCIENCE and MATHEMATICS
Saint-Petersburg State University, Russia (<http://eng.spbu.ru>)
Master Thesis: "Generating context-based constraints for relational databases" (in Russian)
GPA: 4.76/5
- SEP. '00 - JUN. '02 | *Academic Gymnasium of Saint-Petersburg State University, Russia*
(<http://www.agym.spbu.ru>)
Major in Mathematics, Physics and Computer Science
GPA: 4.81/5

WORKING AND RESEARCH EXPERIENCE

- SINCE JAN. '08 | Principal Developer of the TNTBASE project
(<http://tntbase.org/>)
Project aims on creating a versioned XML-database that is adaptable for any XML format. One of the major goals is to understand how versioning and XML technologies should coexist together, what the users expectations are. As a proof of concept, the TNTBASE system is being developed
- SINCE DEC. '08 | Research Assistant
Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI)
(<http://dfki.de/>)
Doing my research project in collaboration with DFKI people
- SINCE DEC. '09 | Contributor to the XQILLA XQuery processor
(<http://xqilla.sourceforge.net/>)
Fixing bugs, optimizing the engine
- SINCE DEC. '09 | Contributor to the BERKELEY DB XML database
(<http://www.oracle.com/us/products/database/berkeley-db>)
Fixing bugs, optimizing the database, building new functionality

- SINCE JAN. '10 | Project leader of the JOMDoc project
(<http://jomdoc.omdoc.org/>)
Coordination of the development of the Java API library for the documents in the Open Mathematical Documents (OMDoc) language (<http://omdoc.org>) (as well as in MathML and OpenMath)
- SINCE JUN. '10 | Participant of the OASIS project
Universität Bremen (<http://www.oasis-project.eu/index.php/lang-en/component/content/63?task=view&cat=22>)
Maintenance of the ORATE research system (<http://babel.informatik.uni-bremen.de/>). Integrating TNTBASE into the ORATE core for enabling better versioning for ontologies in the XML serialization.
- SINCE JAN. '08 | System administrator of the KWARC Group
Jacobs University Bremen(<http://kwarc.info/>)
Managing the KWARC group infrastructure, e.g. Subversion, bug tracker systems, calendars, research systems, user management, etc.
- SINCE FEB. '08 | Head Teacher Assistant of GENERAL COMPUTER SCIENCE lectures
Jacobs University Bremen (<http://kwarc.info/teaching/>)
Creating assignments, quizzes, exams; organizing course workflows and exams
- OCT. '06 - AUG. '07 | Senior Software Developer
DevExperts LLC (<http://devexpers.com>)
Developing the server-side part of the financial software. The main customer was the GFT company (<http://www.gftforex.com/>)
- MAR. '06 - AUG. '06 | Software Developer
Smartphone Labs LLC (<http://www.smartphonelabs.com>)
Developing web-services and entertainment platforms for mobile phones. The customers included THQ WIRELESS, O2, E-PLUS, JIPPII
- AUG. '05 - MAR. '06 | Research Engineer
LG Electronics (<http://www.lge.com/>)
Developing and localizing mobile phone firmwares. Working on internal tools for improving development workflows
- JUL. '04 - JUL. '05 | Software Developer
Lanit-Tercom (<http://www.lanit-tercom.com/>)
Participating in the project for controlling Internet traffic in the companies' networks. Improving architecture of the reporting module, implementing new features, system maintenance
- JUN. '02 - AUG. '02 | Software Developer
Land Department of the Saint-Petersburg region
Short-term project for developing software for representing and searching cartographic data. Was the only developer
- JAN. '02 - MAY '02 | Software Developer
Research Institute of Physics of Saint-Petersburg State University
Developing GUI for software which works with an analog-to-digital converter (ADC) and performs data processing

PUBLICATIONS

BALISAGE 2009 | Vyacheslav Zholudev, Michael Kohlhase

- TNTBase: a Versioned Storage for XML*
 Conference web-page: <http://balisage.net>
<http://www.balisage.net/Proceedings/vol3/html/Zholudev01/BalisageVol3-Zholudev01.html>; in Proceedings of Balisage: The Markup Conference 2009; Balisage Series on Markup Technologies, Mulberry Technologies, Inc. 2009.
- AI MASHUP
 CHALLENGE 2009 | Michael Kohlhase, Jana Giceva, Christoph Lange, Vyacheslav Zholudev
JOBAD – Interactive Mathematical Documents
 Web-page: <http://www.ki09.de/thecontestants-htm/>
<https://svn.omdoc.org/repos/jomdoc/doc/pubs/ai-mashup09/jobad.pdf>; in Brigitte Endres-Niggemeyer, Valentin Zacharias, Pascal Hitzler, eds.: AI Mashup Challenge 2009, KI Conference; September 2009.
- LWA 2009 | Vyacheslav Zholudev
The TNTBase System and Validation of XML Documents
 Workshop web-page: <http://lwa09.informatik.tu-darmstadt.de/>
<http://kwarc.info/vzholudev/pubs/lwa09.pdf>; pp.57–63 in Christoph Lange, Jochen Reutelshöfer, eds.: Wissens- und Erfahrungsmanagement (Knowledge and Experience Management), FGWM09; September 2009.
- XMLPRAGUE 2010 | Vyacheslav Zholudev, Michael Kohlhase, Florian Rabe
A [insert XML Format] Database for [insert cool application]
 Conference web-page: <http://www.xmlprague.cz/2010/>
<http://kwarc.info/vzholudev/pubs/XMLPrague.pdf>; in Proceedings of XML Prague 2010; 2010.
- ESWC 2010 | Catalin David, Michael Kohlhase, Christoph Lange, Florian Rabe, Nikita Zhiltsov, Vyacheslav Zholudev
Publishing Math Lecture Notes as Linked Data
 Conference web-page: <http://www.eswc2010.org/>
<https://svn.omdoc.org/repos/jomdoc/doc/pubs/eswc-demo10/gencs-lod.pdf>; in Lora Aroyo, Grigoris Antoniou, Eero Hyvönen, eds.: ESWC; Lecture Notes in Computer Science, Springer June 2010.
- MKM 2010 | Michael Kohlhase, Florian Rabe, Vyacheslav Zholudev
Towards MKM in the Large: Modular Representation and Scalable Software Architecture
 Conference web-page: <http://cicm2010.cnam.fr/mkm/>
<http://kwarc.info/kohlhase/submit/mkm10-scalable.pdf>; in Intelligent Computer Mathematics; LNAI 6167, Springer Verlag 2010.
- ESWC 2010
 ORES WORKSHOP | Christoph Lange, Vyacheslav Zholudev
Previewing OWL Changes and Refactorings Using a Flexible XML Database
 Workshop web-page: <http://www.ontologydynamics.org/od/index.php/ores2010/>
<http://kwarc.info/clange/pubs/ores2010-tntbase.pdf>; 1st Workshop on Ontology Repositories and Editors; CEUR Workshop Proceedings 596, May 2010.
- BALISAGE 2010 | Vyacheslav Zholudev, Michael Kohhase
Scripting Documents with XQuery: Virtual Documents in TNTBase
 Conference web-page: <http://balisage.net>
<http://kwarc.info/vzholudev/pubs/balisage2010.pdf>; in Proceedings of Balisage: The Markup Conference 2010; Balisage Series on Markup Technologies, Mulberry Technologies, Inc. 2010.

FELLOWSHIPS, AWARDS AND CERTIFICATES

OCTOBER 1997	First place award at SAINT-PETERSBURG REGIONAL ECONOMICS CONTEST
OCTOBER 2006	SUN CERTIFIED JAVA PROGRAMMER Certificate (http://www.sun.com/training/certification/java/scjp.xml)
SEP. '07 - MAR. '08	PH.D FELLOWSHIP at Jacobs University Bremen
JULY 2010	BEST PAPER Award at MKM 2010 (http://cicm2010.cnam.fr/mkm/)
AUGUST 2010	STUDENT SUPPORT Award at Balisage 2010 (http://www.balisage.net/)

OTHER ACTIVITIES AND MEMBERSHIPS

Nov. '10	System administration for NWERC 2010 (http://www.nwerc.eu/) Helping with system administration tasks for the NORTHWESTERN EUROPEAN REGIONAL PROGRAMMING CONTEST
SINCE MAR. '08	Ice-hockey player in the BREMER BRIGADE team http://bremerbrigade.de/ Playing in the hobby ice-hockey team in Bremen
OCT. '07 - MAR. '09	Soccer player in the EAST-EUROPEAN team at Jacobs University Training and taking part in the university soccer contests

SKILLS

¹ NATURAL LANGUAGES:	ENGLISH: Fluent GERMAN: Working Knowledge RUSSIAN: Mother Tongue
OPERATING SYSTEMS:	Microsoft Windows, Linux, Mac OS
PROGRAMMING LANGUAGES:	<i>Main languages:</i> Java, C/C++ <i>Some knowledge:</i> Python, Haskell, SML, Scala, C#, Prolog, bash, PHP
QUERY LANGUAGES:	SQL, XQuery
XML TECHNOLOGIES:	XML, (X)HTML, XSLT, XQuery, DTD, XML Shema, RelaxNG <i>Strong knowledge of XQuery and XML-native database concepts</i>
DATABASE TECHNOLOGIES:	Oracle, MySQL, MS SQL Server, Exists XML database <i>Expert in Berkeley DB XML</i>
FRAMEWORKS	Google Web Toolkit, GWT, Log4j, Jersey RESTful Engine, Apache Cocoon, Hibernate, Struts, JUnit
TECHNOLOGIES	<i>Java:</i> Servlets/JSP, EJB, Multi-threading, Regular Expressions, XML Processing, JDBC, Spring, Collections, Reflection, Apache Ant <i>C/C++:</i> Xerces-C, Apache Portable Runtime (APR), SVN; <i>XQilla and Berkeley DB XML source code</i>

¹Technical skills provided in this section may be not completely full, well-categorized or be up-to-date. They rather serve for the purpose of acquaintance and reflect what technologies I have dealt with.

VERSION CONTROL SYSTEMS | Visual Source Safe (VSS), CVS, *Subversion*, Git, Mercurial

IDEs: | IntelliJ IDEA, Eclipse, NetBeans, Oxygen XML Editor, Emacs, MS Visual Studio, Delphi

HOBBIES | Ice-hockey, soccer, drums, music, go-karting, XML

REFERENCES

* *Available on request*