Dr.-Ing. Dragan Milosevic

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Curriculum Vitae



Personal Data

Name Dr. Dragan Milosevic

Date of Birth 6 Mai, 1975 Place of Birth Jagodina, Serbia

Professional Experience

04/2011-present Lead Architect Distributed Computing, Zanox.de AG, Berlin

- Planning and coordination of architecture topics for distributed processing and delivery of data
- Coordination and mentoring young developers
- Research:
 - Data processing: Hadoop, Hive, Pig, Mahout, Avro, Flume, Oozie, Map & Reduce-Side Joins, OLAP Cube
 - o NoSQL: HBase, Casandra
 - o Search systems: Lucene, Solr, Lily
 - o Coordination systems: Zoo Keeper
- Development:
 - o Complex data analyses with Hadoop
 - o Distributed reporting systems with Lucene
 - Self-healing distributed search components
- Programming:
 - o Programming languages: Java, SQL, Web-Services, Hive-QL, Pig Latin, MDX, JUnit, PowerMock, Unix
 - Tools: Eclipse, Maven, Jenkins, Hudson, Luke, JBoss, Cygwin, VMPlayer, MsSQL

01/2008-03/2011 Senior Architect, Zanox.de AG, Berlin

- Research:
 - o Data processing: Hadoop, Map-Reduce
 - Data mining: K-Means und Canopy clustering, Rulebased categorisation of products
 - o Search systems: Lucene
- Development:
 - Hadoop based categorisation and indexing
 - o Distributed product search with Lucene
 - o Distributed Lucene-based reporting systems
- Programming:
 - o Programming languages: Java, EJB, SQL, HQL
 - Tools: Eclipse, Ant, Maven, FTP, JBoss, JUnit, MySQL, MsSQL, Karmasphere, Luke, SOAP-UI

06/2006-12/2007 Senior Research Scientist, DAI-Lab, Technical University Berlin

- Planning and coordination of research projects
- Mentoring and guidance of students
- Research:
 - Information retrieval: Index-based, LSI, PCA, SOM, Resource-based combination techniques
 - Recommendation systems: Collaborative, Content and Hybrid filtering systems
 - o Distributed programming: P2P, Resource management
- Teaching:
 - o Smart information filtering and filtering services
 - o Intelligent agent-based systems
- Programming:
 - o Programming languages: Java, JSF, XML, HTML
 - o Tools: Eclipse, Weka, Jama, Lucene, mvnForum, whirlyCache, Hibernate, MySQL, Maven, JBoss, SAX

01/2002-05/2006 **Postgraduate Researcher**, DAI-Lab, Technical University Berlin

- Mentoring and guidance of students
- Research:
 - Information retrieval: n-gram-based, Index-based, SOM, Multi-lingual SOM
 - Machine learning: Evolution programming, Inductiveund analytical learning, Gradient-based learning, Neural networks, Decision trees
 - o Data mining: Hierarchical-, Partition- und Hybrid clustering techniques, Association rule mining
 - User modelling: Naive-Bayesian classifier, Implicit und pseudo user-feedback
- Programming:
 - o Programming languages: Java, SQL, JSP, HTML
 - o Tools: Eclipse, MySQL, Ant, SAX-Parsers, Mail-API, Log4J, JUnit, Weka, Jama, Lucene, Tomcat

04/2000-10/2001 **Teaching Assistant**, University of Nis, Serbia

- Mentoring and guidance of students
- Research:
 - Symbolic programming: Automatic theorem proving, Hyper-geometrical functions
 - o Decision diagrams: BDD, FDD, FFT
- Teaching:
 - Logical programming
 - o Programming techniques und database systems
- Programming:
 - o Programming languages: C/C++, Mathematica, Lisp
 - o Tools: MS Visual Studio, Mathematica Workbench

11/2001-12/2001 **Visiting scientist and DAAD fellow**, Computing Science, Dortmund 10/2000-12/2000 University

- Research:
 - o Decision diagrams: BDD, FDD, FFT, Fuzzy DD
- Programming:
 - o Programming languages: C/C++
 - o Tools: MS Visual Studio

07/2000-06/2001 Part-time worker, RistanCase, Zürich

- Research:
 - Embedded systems: Designing language for testing embedded C programs
- Programming:
 - o Programming and modelling languages: C/C++, UML
 - o Tools: Borland Developer Studio, MS Visio

Professional Skills und Competences

Languages • Serbian (native)

- English (fluent, TOEFL 577/650)
- German (very good)
- French (basic)

Competences

- Capability to independently develop and model domainspecific and fault-tolerant distributed search systems
- Working in multi-culture teams and international cooperation
- Experience in project management
- Involved in teaching and mentoring

Education

06/2006 Obtaining Dr.-Ing. degree (very good)

Title: Coordinating Filtering Strategies in Cooperative Agent Communities

Supervisor: Prof. Dr. Sahin Albayrak, Technical University Berlin Prof. Dr. Klaus Obermayer, Technical University Berlin

2002-2006 Working on Ph.D. thesis, Technical University Berlin

09/2001 Obtaining M.Sc. degree (10.00/10.00)

Title: Program Generator and Verifier of

Symbolic Orthogonal Polynomials and Recursive Relations
Supervisor: Prof. Dr. Lazar Djordjevic, University of Nis, Serbia
Prof. Dr. Gradimir Milovanovic, University of Nis, Serbia

1999-2001 Working on M.Sc., University of Nis, Serbia

09/1999	Obtaining DiplIng. degree (10.00/10.00)
	Title: Automatic Proving of one Type of Binomial Equations by
	Using Program System Mathematica
	Supervisor: Prof. Dr. Lazar Djordjevic, University of Nis, Serbia
	Prof. Dr. Zivko Tosic, University of Nis, Serbia
07/1999-08/1999	Practical training, Hydro-power plant, Agrinion, Greece
1994-1999	Computer Science (10.00/10.00), University of Nis, Serbia
1990-1994	Gymnasium, Nis, Serbia (5.00/5.00)
1982-1990	Primary school, Nis, Serbia (5.00/5.00)

Further Education

02/2012	Efficient product development with Scrum
10/2011	Lucene application development workshop, Lucid Imagination
10/2010	Scrum workshop, Simon Roberts, Scrum Centre GmbH
06/2010	Developer training for Apache Hadoop, Cloudera University
07/2009	Advanced JBoss hibernate technology, Red Hat
09/2008	JBoss enterprise application development, Red Hat
02/2008	Project Management with Microsoft Project, ZIFW Training

Awards

Chairman on Conference ISC 2006, USA
Best student (Silver Gain), University of Nis, Serbia
Best diploma theses, University of Nis, Serbia
Best student, University of Nis, Serbia
Best pupil, Primary school, Nis, Serbia

Tutoring and Consulting

Students Technical University Berlin: Alexander Korth, Christian Scheel,

Jerome Kunegis, Martin Mehlitz

University Nis: Valentina Milicevic, Igor Stankovic, Krstic Predrag

Companies RistanCase, Zürich