



# Nemanja Kostic

## Personal Data

- Birth date: 23.02.1978
- Status: married, no children
- Swiss work permit: B type

## Objective

Looking for a position of **Enterprise or Solution Architect** where many years of professional development experience with managing skills and business orientation will contribute to success of software development projects.

## Synopsis

- **Solution Architect & Senior Software Engineer** with over 10 years of commercial experience in the areas of software architecture, software engineering, business and technical analysis, design, integration, development and deployment of distributed, desktop and Internet applications.
- **Ambitious and experienced technical lead** with proven technical and project management skills, developed through work across a wide range of **JEE** and **.NET** projects.
- **Practical knowledge of many software engineering and design methodologies**, modeling techniques, design patterns, software industry best practices and programming languages.
- Strong **analytical, abstract and creative** thinking.
- Experienced in the **full software development lifecycle**, including requirements analysis, specification, design, resource planning and team management through to delivery.
- Demonstrated capacity to successfully **manage multiple projects and meet deadlines.**
- Ability to function as a **team player** as well as work independently to achieve objectives.
- Experienced in **managing and leading nearshore** software development teams and projects.
- Experienced in **client facing with good communication skills.**
- Due to a broad formal education with **master's degree in computer and information technologies** easily learns and adopts new technologies and tools and follows software industry trends.
- Experienced in working on **international projects** for well established companies.
- Capable for **fast adjustment to a new and a multicultural environment.**

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<b>Work Experience Summary</b> (details of each project is at the end of this document)	<b>Period</b>	<b>Company/Project</b>	<b>Position</b>
	<b>July 2008 - Present</b>	<b>Zurich Insurance www.zurich.com (Zürich)</b>	<b>IT Solution Architect</b>
		<i>Transactional Pricing Platform</i>	Solution Architect
		<i>Natural Catastrophe System</i>	Solution Architect
		<i>Common Underwriting Backbone</i>	Solution Architect
	<b>July 2004 – July 2008</b>	<b>Youngculture AG www.youngculture.com (Zürich)</b>	<b>Chief Technology Officer</b>
		<i>Vontobel Research Information System</i>	Technical Project Manager/ Software Architect/ Senior Developer
		<i>Cyclone Middleware Search Engine Integrator</i>	Software Architect/ Team Leader
		<i>Avalanche Web Framework</i>	Project Manager/ Software Architect/ Senior Developer
		<i>Webmanager CMS</i>	Senior Developer/ Oracle Database Engineer
		<i>Smith Application Server</i>	Software Architect/ Senior Developer
		<i>Guidle</i>	Technical Manager
	<b>Jan 2003 - July 2004</b>	<b>Diosphere Ltd. www.diosphere.com (Belgrade)</b>	<b>Software Engineer</b>
		<i>Diomedia Document Management System</i>	Software Engineer
		<i>Sun Gaming</i>	Software Developer
	<b>Jan 2001 - Jan 2003</b>	<b>Siemens AG www.siemens.de (München)</b>	<b>Software Developer</b>
		<i>WPE Analyzer</i>	Software Developer
		<i>OMNet++ Network Simulation</i>	Software Developer

**Project Management Skills**

- Project planning
- Estimates
- Development methodologies
- Task allocation
- Resource management
- Team monitoring and supervision
- Client presentation
- Quality assurance

**Technical Skills****Application Architecture and Design**

- Cloud based architectures
- Service oriented/distributed architectures
- Multi-tier solutions, **JEE** and **.NET** based
- Web services
- Enterprise applications integration
- Large-scale web systems
- Thin and rich client applications
- Software design patterns
- Agile development
- Test driven development
- Object-oriented analysis and design
- Aspect-oriented methodology
- Relational database modeling

**Programming, Scripting and Mark-up Languages Knowledge**

- Java/JEE/.NET
- ColdFusion
- JavaScript
- SQL
- C/C++/C#
- Perl
- Assembly
- HTML, DHTML
- XML
- CSS, XSLT

**Technologies, Systems, Libraries and Frameworks Used**

- Java SE / EE
- Google App Engine
- Web Services - CXF/Axis
- Search tools - Lucene/Egothor
- AOP - AspectJ/AspectWerkz
- Web Frameworks - Wicket/Tapestry/JSF/Struts/Echo2/GWT
- IoC - Spring/Guice/HiveMind/Pico
- ORM - Hibernate/iBatis
- Cache - EhCache/OSCache
- Templates - FreeMarker
- Apache toolset - commons/etc.
- Ajax - DWR/prototype
- Testing - JUnit
- Build - Ant/CruiseControl
- Web Servers - Tomcat/Jetty
- App Servers - JBoss/WebLogic
- Reporting - JFreeChart/JasperReports
- Misc. Libraries - Jodd, JTidy/Jericho, Quartz, iText/FOP, JavaCC, Castor, Emma/Clover, PMD, FindBugs etc.

**Databases**

- Oracle
- MySQL
- Microsoft SQL
- Apache Derby
- Berkeley DB
- Postgres

**Software Tools**

- Sparx Enterprise Architect
- Structure 101
- Eclipse/IntelliJ/Visual Studio
- PLSQL Developer
- CVS/SVN/TFS
- XMLSpy
- Visio/SmartDraw
- Selenium/JMeter
- Jira/BugZilla
- PlanningIT

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Education	Year	Qualification
	2002 – 2007	<p><b>M.Sc. in Electrical Engineering</b>, University of Belgrade, Faculty of Electrical Engineering, Computer and Information Science Department.</p> <p>Thesis title: "<i>Applying Aspect-Oriented Methodology in developing Content Management Systems</i>".</p> <p>Thesis goal was to show applicability of aspect-oriented programming on complex software systems such as content management systems. Primary task was to identify crosscutting concerns as well as to examine possibilities of developing low level CMS functionalities using aspects. As a product of thesis, AspectCMS framework was created and WebAspect (Web Content Management System) based on that framework. Both products are written in Java language with support of AspectJ, Tapestry, Spring and Hibernate frameworks.</p>
	1996 - 2002	<p><b>B.Sc. in Electrical Engineering</b>, University of Belgrade, Faculty of Electrical Engineering, Computer and Information Science Department.</p> <p>Thesis title: "<i>BugBase - distributed bug tracking system</i>".</p> <p>BugBase is a product for bug/issue tracking. Goal of thesis was to show distributed programming technology based on RMI protocol. BugBase was developed in Java language.</p>
	1992 - 1996	<p>Technical High School, Sombor</p> <p>Main subjects of study were mathematics, electronics, physics and computer programming including the following programming languages: Pascal, C, Fortran.</p>
<b>Certifications, Conferences, Publications, Trainings</b>		<ul style="list-style-type: none"> <li>• December 2009 – <b>Business Consulting Skills for IT</b> training</li> <li>• July 2009 – <b>IBM Insurance Application Architecture</b> training</li> <li>• May 2009 – <b>Working in International Teams</b> training</li> <li>• July, 2007 - <b>Jazoon conference</b> (Zürich), presentation "<i>Avalanche framework - coding by conventions in Web development</i>"</li> <li>• March, 2006 - <b>Sun Certified Java Programmer</b></li> <li>• June, 2004 - <b>COM magazine</b> (Belgrade), "Java Tiger Features"</li> <li>• September, 2002 – <b>TELFOR</b> Telecommunications Forum conference (Belgrade), presentation "Distributed programming and software architectures"</li> <li>• June, 1995 - Cambridge University Diploma for excellence in English language</li> </ul>

## Other activities

- **Creator of WARI application** – web application resource inspector is used to check dependencies between static resource files like JavaScript, HTML and CSS. As a result it produces a report of unused and duplicated CSS styles, JS functions and images. More info on <http://wari.konem.net>.
- **Jazoon Program Committee member** – since 2009.  
More info on <http://www.jazoon.ch>
- **Founder and administrator of JavaSvet** - first JUG (Java Users Group) community in Serbia (<http://www.javasvet.net>) with over 1000 members. Received honors from SUN Microsystems for achievements in popularization of Java technology.  
  
Organized seminars in Belgrade:
  - Jonas Boner - Terracota clustering in JVM
  - Rod Johnson and Rob Harrup - Spring Framework
- **Blogging** – maintain blog related to Java technology: <http://blog.konem.net>
- Free time like to spend in: dancing salsa, swimming, hiking, playing squash.

# Projects in detail

<b>Projects</b>	<b><i>Transactional Pricing Platform</i></b> Team size: 30 Duration: 3 years Clients: Zurich Insurance Company ( <a href="http://www.zurich.com">http://www.zurich.com</a> )  Transactional Pricing Platform is a global underwriting solution used for calculating technical premium price for Zurich's Global Corporate unit.
	<b><i>Natural Catastrophe System</i></b> Team size: 10 Duration: 8 months Clients: Zurich Insurance Company ( <a href="http://www.zurich.com">http://www.zurich.com</a> )  This system is used for gathering property information of Zurich's Global Corporate clients.
	<b><i>Common Underwriting Backbone</i></b> Team size: 20 Duration: 12 months Clients: Zurich Insurance Company ( <a href="http://www.zurich.com">http://www.zurich.com</a> )  Common Underwriting Backbone is a system created in Service Oriented Architecture manner and used for sharing common data among many business units across the globe – North America, Europe, Asia Pacific and Latin America.
	<b><i>Vontobel Research Information System</i></b> Team size: 3 Duration: 12 months Clients: Bank Vontobel ( <a href="http://www.vontobel.com">http://www.vontobel.com</a> )  RIS is a Web-based application used for manipulation of research-related documents. It has a complex distributed architecture with presentation server based in-house while database backend is based in other partner company. By using SOA, we have managed to establish bidirectional communication between these two companies. Some of the technologies used on this projects are: Java EE, Avalanche, DWR, FreeMarker, XFire, Apache VFS, OSCache.
	<b><i>Cyclone Middleware Search Engine Integrator</i></b> Team size: 8 Duration: 1.5 years Clients: Bank Vontobel ( <a href="http://www.vontobel.com">http://www.vontobel.com</a> ), Helsana Versicherungen AG ( <a href="http://www.helsana.ch">http://www.helsana.ch</a> )  Cyclone is a universal search middleware, simultaneously usable by several applications. It is an integration layer with unique API which can enable different applications to use same search protocols with different underlying core search engines like Lucene, Egothor, FAST, Google Search Appliances etc. Some of the technologies used on this projects are: Java EE, JSF, Lucene/Egothor.  More about this product on: <a href="http://www.youngculture.com/en/products/cyclone.jsp">http://www.youngculture.com/en/products/cyclone.jsp</a>
	<b><i>Avalanche Web Framework</i></b> Team size: 3 Duration: 7 months Clients: Bank Vontobel ( <a href="http://www.vontobel.com">http://www.vontobel.com</a> ), Guidle Company

(<http://www.guidle.com>)

Avalanche is a component-oriented JEE web framework, developed for data acquisition from various data sources (databases, proprietary CMS, file systems, web services etc.), as well as for processing and presentation. Avalanche is based entirely on AJAX, and represents an outstanding alternative to highly complex web frameworks that are difficult to master.

Avalanche introduces a genuine coding-by-conventions concept into web development. This concept is virtually custom-tailored for teams with a strict developmental segmentation: web designers, prototypers, customizers and system integrators can work simultaneously on the same project and concentrate on their areas of expertise without having to acquire other technologies knowledge. Some of the technologies used on this projects are: Java EE, DWR.

More about this product on:

<http://www.youngculture.com/en/products/avalanche.jsp>

### **Webmanager CMS**

Team size: 20

Duration: 7 years

Clients: Bank Vontobel (<http://www.vontobel.com>), Phonak (<http://www.phonak.com>), Bank Julius Bär (<http://www.juliusbaer.com>), AIG Privatbank (<http://www.aig.com>), Helsana Versicherungen AG (<http://www.helsana.ch>), Progrés (<http://www.progres.ch>), Zurich Schweiz (<http://www.zurich.ch>), Interroll Management AG (<http://www.interroll.ch>), SNV Schweizerische Normen Vereinigung (<http://www.snv.ch>) etc.

Webmanager is a high performance CMS software for planning and administration of complex internet and intranet portals. It is focused on banks and insurance companies because it offers variety of modules specific to their business needs. The essential characteristics of webmanager® at a glance:

- «wysiwyg» publishing and template creation
- Publishing workflow
- Version tracking
- Time-regulated publishing
- Administration of several websites (various internet appearances, intranet, extranet)
- Multi-lingual
- Integrated user management
- Direct ADS/LDAP interface
- Single Sign On (SSO)
- Personalization
- Import/Export interfaces (WebDAV, LDAP, JDBC, XML, etc.)
- Disclaimer administration
- Digital asset management (images, multimedia, documents)
- Easily usable template management

Some of the technologies used on this projects are: Java EE, ColdFusion, Oracle.

More about this product on:

<http://www.youngculture.com/en/products/webmanager.jsp>

### **Smith Application Server**

Team size: 6

Duration: 1 year

Clients: Smith is open-source product (<http://www.smithproject.org>)

Smith is a platform-independent ColdFusion engine, written entirely in Java. It

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requires Java Runtime Environment and Java servlet containers, runs on practically every operating system and works with any web server. Smith represents a trim but nonetheless reliable alternative to existing ColdFusion servers. Smith supports the crucial ColdFusion-functions and already controls a number of large ColdFusion applications.

By virtue of this deep integration in J2EE, Smith is part of the Java web application, and can be used with servlets and JSPs. Server configuration is possible via a web interface in which data base connections, debugging options and server mapping among other things can be adapted.

Some of the technologies used on this projects are: Java EE, ColdFusion.

More about this product on:

<http://www.youngculture.com/en/products/smith.jsp>

### **Guidle**

Team size: 15

Duration: 1 year

Clients: Guidle company (<http://www.guidle.com>)

Guidle is a community-platform which provides easy search for any kind of event or point of interest - hotels, restaurants etc.

Some of the technologies used on this projects are: Java EE, JSF, Lucene, Cyclone, DWR.

### **Diomedia Document Management System**

Team size: 7

Duration: 3 years

Clients: SuperBild (<http://www.superbild.de>), QuickImage (<http://www.quick-image.com>), DioMedia (<http://www.diomedia.com>)

DioMedia is a distributed content management system for stock photography agencies. It covers Web interface for online showing and searching stock photography, Web administration as well as desktop application for importing, manipulation and exchange of various digital assets - photographs, video clips/movies, illustrations, fonts etc.

Some of the technologies used on this projects are: Java EE, EJB 2.1, JRun, Lucene, Spring, iBatis, MS SQL Server.

### **Sun Gaming**

Team size: 15

Duration: 1 year

Clients: Sunny Group (<http://www.sunnygrp.com>)

System for online gambling using Internet, PDA devices and mobile phones. Project covers the complete gambling process with server application, client interface for 10+ mobile phone versions, Internet + PDA interface, credit and scratch card payment processors as well as back office application for data monitoring.

Some of the technologies used on this projects are: Java EE, JME, C++

### **WPE Analyzer**

Team size: 10

Duration: 6 months

Clients: Siemens (<http://www.siemens.de>)

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Team size: 10  
Duration: 6 months  
Clients: Siemens (<http://www.siemens.de>)

This is a UNIX server's performance analyzer. It is an application for acquiring, graphical showing and manipulation of testing results of Web site applications from all around the world. It covers response, routing, delay and working time. It is used mainly in testing online bank systems, because of their specific mission critical requirements.

Some of the technologies used on this projects are: Java, JBoss application server, JSP, servlets, Perl, CGI, PostgreSQL, Apache, Tomcat.

### **OMNet++ Network Simulation**

Team size: 12  
Duration: 3 years  
Clients: Siemens (<http://www.siemens.de>)

Developing TCP/IP module used in simulation of LAN / WAN networks in OMNet++ simulation project. To develop this module, complete and throughout knowledge of TCP protocols was needed. One module for LAN/WAN networks simulation project.

Some of the technologies used on this projects are: C++, OMNeT++.

### **Misc. projects**

**Konem bank** - online banking system. Complete application which includes server side components, Web interface and desktop administration application. 3-layered architecture with implementation on J2EE Enterprise platform using JBoss application server, Spring framework, Hibernate ORM and WebWork MVC Web framework.

**BugBase** - bug tracking system, presented at TELFOR conference 2002. System is used for tracking bugs in multiple projects. Distributed asynchrony database is used with RMI synchronization over Internet.  
Used technology: Java, RMI, Swing, MS SQL server, MS Access  
This project was my B.Sc thesis.

**WarGL** - Running target game, Visual C++ simulation that demonstrates most of OpenGL functions like free-hand camera, different views, ray tracing light, hiding and clipping algorithms.