

Dr Milan Milanović



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INFORMATION TECHNOLOGY / SOFTWARE Engineering

Lead Software Architect

To obtain a position in programming or related areas that would best utilize expertise in the software development. This position should have many opportunities for an passionate, dedicated individual ready to learn and advance.

QUALIFICATIONS

Works in a team as Software architect / Senior software engineer on different software solutions. Highly proficient in Java (2004–2010), C#/ASP.NET (2008–present) and SQL Server (2011–present). Has strong academic and industrial experience in the area of software architecture and engineering.

IT subjects:

- Software development methods: Rational Unified Process, Extreme Programming and SCRUM;
- Management: Product management, Recruiting, Mentorship & Coaching, People management.
- Programming languages (Pascal, C, C++, C#);
- Internet programming (ASP.NET, AngularJs, Java [J2EE], Struts, AJAX, HTML/CSS, JavaScript/jQuery);
- Object technologies: Design Patterns, UML/OCL and OO program language components;
- Visual tools (Visual Studio, Eclipse, Netbeans, Rational Rose, ERWin, BPWin);
- Other tools/technologies (XML, XSLT, ATL/QVT, JUnit);
- Databases (MySQL, MSSQL, RavenDB);
- Build tools (Maven, Ant, MSBuild);
- Business process and rules (BPMN, R2ML, SWRL/OWL, Drools);
- Source control (Git, TFS, SVN).

Avocation:

- Digital photography, Adobe Photoshop and Corel DRAW.
 - 20 years IBM PC-compatible experience, with knowledge of and experience in all major software, including Microsoft Word, Excel, Access, 95/98/Me/NT/XP/7/8/10, DOS, and peripherals.
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EDUCATION

- **Ph.D. in Computer Science in the area of Software Engineering,** *2007. - 2010.*
FON-School of Business Administration, University of Belgrade, Department of Information Systems and Technologies, Serbia. Thesis: "Modeling Rule-Driven Service Oriented Architectures". Work on the thesis done in collaboration with Athabasca University, Canada and Brandenburg University of Technology Cottbus-Senftenberg.
- **M.Sc. in Software engineering and informatics,** *2005. - 2007.*
FON-School of Business Administration, University of Belgrade, Department of Information Systems and Technologies, Serbia. Thesis: "Modeling rules on the Semantic Web". Obtained a GPA of 9.7 out of 10.0. Work on the thesis done in collaboration with Simon Fraser University, Canada and Brandenburg University of Technology Cottbus-Senftenberg.
- **Professional master in Internet technology,** *2004. - 2005.*
FON-School of Business Administration, University of Belgrade, Department of Information Systems and Technologies, Serbia. Thesis: "Managing documentation process in J2EE environment". Obtained a GPA of 9.6 out of 10.0.
- **B.Sc. with Honors in Computer Engineering Management,** *2002. - 2004.*
Department of Computer Engineering of the Graduate School of Business Studies in Belgrade, Serbia. Obtained a GPA of 9.5 out of 10.0. University scholarship in fourth year for superior academic achievements.
- **Graduated with a degree in computer sciences (A.Sc.),** *1999. - 2001.*
College of Electrical engineering, Department of New Computing Technologies in Belgrade, Serbia. Thesis: "Database accesses for financial business software". Obtained a GPA of 9.3 out of 10.0. Ranked top 1% in class.

Certifications: He is a *Certified ScrumMaster, Professional Scrum Developer, MCP, MCTS for ASP.NET, MCTS for SQL Server 2008, Database Development and MCPD for ASP.NET.*

Training record: Agile Architecture and Flow Analysis (2017.), Agile Leadership (2018.), Feedback training (2018.).

PROFESSIONAL EXPERIENCE

Zühlke Group, Serbia

- *Lead Software Architect* 2018. – now
 - *Team Lead (Belgrade side)*
 - *Software architecture, testing and implementation.*
 - *Coaching.*
 - *Interviewing candidates.*
- *Expert Software Engineer* 2017. – 2018.
 - Working on customer projects as part of a distributed .NET DEV team.

Electric power industry of Serbia, public company

- *Head of software development department:* 2014. – 2017.
 - Leading main software implementation projects (.NET tech stack + MS SQL Server).
 - Developing short and long term strategy for the team to meet the company's goals and objectives.
 - Overseeing internal product development.
 - Teaching and training software developers.
 - Harmonising engineering processes, driving consistent standards and approaches throughout the team.
 - Supervising other software projects.
 - Defining implementation times and deadlines (for development and support).
 - Internal staff recruiting.
 - Leading technical support.
 - Defining new internal organizational structure.
- *Head of Technical Software Development Department:* 2011. – 2014.
 - Team leader for software engineers developing applications using predominantly AJAX, ASP.Net (C#) and SQL Server;
 - Defined standards, tools and processes that were used for solution development within company.
 - Administration and configuration of SQL Server 2008/2014 (backup, migrations, maintenance), Team Foundation Server and IIS.
- *Senior Software Engineer:* 2004. - 2011.
 - Coal Quality (Eclipse + EJB3 + Hibernate + Spring framework + Struts 2 + JUnit 4 + JMock + JFreeChart + JasperReports);
 - ArchiDoc Web Document Management System (Netbeans + EJB2 + Struts + JSP + JUnit 3 + Patterns);
 - Storehouse operations distributed application, design and implementation (C# + MS SQL Server + Crystal reports);
 - Other projects (CMS for Web portal & CD presentation, E-commerce Web site implementation...);
 - Created and held Java courses for 40 software developers (Basic, Advanced, Web, J2EE). Duration: 1 year.

Abell Soft company, Serbia

2001. to 2002.

- *Software Developer Consultant:*
 - E-Store application for on-line for selling books in PHP/JavaScript/MySQL;
 - Complete code and design of a business packages STR 1.1 and FinanceBusiness 1.0 (for distributed environment) for small and medium companies in MS Visual C++, using MFC, Win32, PHP and MS Access;
 - Coded, designed and managed multiple web sites using HTML, JavaScript, PHP, MySQL, visual editors like Macromedia Dreamweaver and Microsoft FrontPage so as other graphical tools;
 - Active IT consulting for a number of companies in the area of business software implementation.

SOFTWARE PROJECTS

Professional

- ***Integrated investment advisory platform for relationship managers of a private bank***
 - Software architecture, design, testing and implementation.
 - Team lead (DD Belgrade).
 - Coaching.
 - Tech stack: C#/.NET, EntityFramework, T-SQL, Protractor, Cake, Angular, TypeScript, Visual Studio, Git.
- ***GUI for Media Processing System***
 - Software testing and implementation.
 - Tech stack: WPF, MVVM, C#, Feature Based, FluentAPI, MVVMLight, ReFit, Aspose, SourceAFIS.
- ***Insurance Portal for Corporate Customers***
 - Software architecture, design, testing and implementation.
 - Team lead (DD Belgrade).
 - Tech stack: C#, ASP.NET MVC, Entity Framework, SQL Server Integration Services, RavenDB, Kendo UI, TypeScript, LESS, TFS.
- ***Procurement solution***

- Project management.
- Software requirements engineering, architecture, design, testing and implementation.
- Tech stack: C#, ASP.NET MVC/Core, Entity Framework, SQL Server, TFS.
- **Vechile maintenance**
 - Project management.
 - Software requirements engineering, architecture, design, testing and implementation.
 - Tech stack: C#, ASP.NET MVC, KnockoutJs, Entity Framework, SQL Server, TFS.
- **Materials management**
 - Project management
 - Software requirements engineering, architecture, design, testing and implementation.
 - Tech stack: C#, ASP.NET Web Forms, ADO.NET, SQL Server, TFS.
- **TopUp and TopUp mobile**
 - Project management
 - Software requirements engineering, architecture, design, testing and implementation.
 - Tech stack: C#, WPF, Android.
- **Sap ERP implementation**
 - Project management team member for SAP ERP implementation, acting as internal audit.
- **Oracle UCM**
 - Document management system (support).

Research

- **rBPMN editor**
 - Full BPMN2 GMF and EMF-based editor implementation.
 - Includes Rule editors for integrity, derivation, production and reaction rules.
 - Tech stack: Java, Eclipse, EMG, GMF.
- **R2ML - The REVERSE I1 Rule Markup Language**
 - The REVERSE I1 Rule Markup Language meta-model implementation and XML Schema.
 - Implemented R2ML metamodel in different formats.
 - ATL Transformations from SWRL to R2ML to OCL and back.

For more additional information and projects visit my personal website: <http://milan.milanovic.org/#projects>

RESEARCH

Member of the GOOD OLD AI Research Network (since 2005.), ACM and IEEE Computer Society.

Research projects

- **rBPMN editor** - An Eclipse-based implementation of a Rule-based BPMN. *2007. - 2010.*
- **R2ML** - The REVERSE I1 Rule Markup Language meta-model and Web translator's implementation. *2005. - 2007.*

International journal editorial board membership

- Human-centric Computing and Information Sciences, Springer.
- International Journal of Distributed Systems and Technologies, IGI Global.

International conference program committee membership

- 3rd International Workshop on Model Transformation with ATL (MtATL2011), Zürich, Switzerland, July 1, 2011.
- I-SEMANTICS 2011 Conference, 7th International Conference on Semantic Systems, Graz, Austria, 7-9 September 2011.
- 2nd International Workshop on Model Transformation with ATL (MtATL2010), Malaga, Spain, June 30, 2010.
- IADIS International Conference on Information Systems 2010, Porto, Portugal, March 18-20, 2010.
- 1st International Workshop on Model Transformation with ATL (MtATL2009), Nantes, France, July 7-8, 2009.
- I-SEMANTICS '09 Conference, Graz, Austria, September 2-4, 2009.
- IADIS International Conference on Information Systems 2009, Barcelona, Spain, February 25-27, 2009.

Reviewer

Journals

- IEEE Transactions on Systems, Man, and Cybernetics, Part C: Applications and Reviews, IEEE Systems, Man, and Cybernetics Society.
- International Journal of Business Process Integration and Management, Special issue on Dynamic and Declarative Business Processes, Inderscience, 2010.
- Information Systems, Elsevier.
- TMRf e-Book on Advances in Semantic Computing, 2009.
- Handbook of Research on Emerging Rule-Based Languages and Technologies: Open Solutions and Approaches, 2009.

International conferences

- 8th International Conference on Service Oriented Computing (ICSOC 2009), Stockholm (Sweden), November 24-27, 2009.

- ACM/IEEE 11th International Conference on Model Driven Engineering Languages and Systems (MODELS 2008), Toulouse, France, 28 September - 3 October, 2008.
- 7th International Conference on Conceptual Modeling (ER 2008), Barcelona, Spain, October 20-23, 2008.
- 3rd International Workshop on Vocabularies, Ontologies and Rules for The Enterprise (VORTE 2007) at 11th IEEE International Enterprise Distributed Object Computing Conference (EDOC 2007), Annapolis, Maryland, USA, October 2007.
- 7th International Conference on Web Engineering (ICWE2007), Como, Italy, July 16-20, 2007.

PUBLICATIONS

Book chapters

- Milanović, M., Djurić, D., Gašević, D., Devedžić, V., "Sharing ontologies and rules using model transformations," In Giurca, A., Gašević, D., Taveter, K., (Eds.), Handbook of Research on Emerging Rule-Based Languages and Technologies: Open Solutions and Approaches, 2009.
- Ribarić, M., Sheidaei, S., Gašević, D., Milanović, M., Giurca, A., Lukichev, S., Wagner, G., "Modeling of Web Services – using URML, R2ML and model transformations," In Giurca, A., Gašević, D., Taveter, K., (Eds.), Handbook of Research on Emerging Rule-Based Languages and Technologies: Open Solutions and Approaches, 2009.
- Gašević, D., Kaviani, N., Milanović, M., "Ontologies and Software Engineering," In Staab, S. & Studer, R. (Eds.), Handbook on Ontologies, Springer, 2nd ed., 2009.

International Journal Publications

- Milanović, M., Gašević, D., Giurca, A., Wagner, G., Devedžić, V., "Bridging Concrete and Abstract Syntax in Model Driven Engineering: A Case of Rule Languages", Software: Practice and Experience, Wiley, 2009. (*in most accessed in SPE*)
- Milanović, M., Gašević, D., Giurca, A., Wagner, G., Lukichev, S., Devedžić, V., "Model Transformations to Bridge Concrete and Abstract Syntax of Web Rule Languages", ComSIS Journal, ComSIS Consortium, 2009.

International Conference Proceedings/Workshop Publications

- Milanović, M., Gašević, D., "Modeling Service Choreographies with Rule-enhanced Business Processes", the Fourteenth IEEE International EDOC Conference (IEEE EDOC 2010), Vitória, ES, Brazil, 25-29 October 2010.
- Milanović, M., Gašević, D., Wagner, G., Hatala, M., "Rule-enhanced Business Process Modeling Language for Service Choreographies", in Andy Schurr, Bran Selic: Model Driven Engineering Languages and Systems, 12th International Conference, MODELS 2009, Denver, Colorado, USA, October 4-9, 2009, Proceedings. Lecture Notes in Comp Science 5795.
- Milanović, M., Gašević, D., "Towards a Language for Rule-enhanced Business Process Modeling", The Thirteenth IEEE International EDOC Conference (EDOC 2009), Auckland, New Zealand, 2009.
- Milanović, M., Gašević, D., Wagner, G., "Combining Rules and Activities for Modeling Service-Based Business Processes", International Workshop on Models and Model-driven Methods for Enterprise Computing (3M4EC), in conjunction with The Twelfth IEEE International EDOC Conference (EDOC 2008), Munich, Germany, 2008.
- Milanović, M., Gašević, D., Giurca, A., Wagner, G., Lukichev, S., Devedžić, V., "Bridging Concrete and Abstract Syntax of Web Rule Languages", The First International Conference on Web Reasoning and Rule Systems (RR2007), Innsbruck, Austria, 2007. (Lecture Notes in Computer Science, Vol. 4524, Springer), pp. 309-318.
- Milanović, M., Gašević, D., Giurca, A., Wagner, G., Devedžić, V., "Model Transformations to Share Rules between SWRL and R2ML", 3rd International Workshop on Semantic Web Enabled Software Engineering (SWESE 2007), Innsbruck, Austria, 2007. (*Best paper award*)

National Conference/Workshop Publications

- Milanović, M., "Model Transformations to Share Rules Between SWRL and OCL", In Proceedings of XIII YU INFO Conference (YUINFO2007), Kopaonik, Serbia, 2007.
- Milanović, M., Bevanda, V., "Rules interchange for Electronic Business", 7th International Conference on Electronic Commerce and Electronic Business (E-trgovina), Palić, Serbia, 2007.

LANGUAGES

- Serbian - native (CEFR level C2).
- English - speaks fluently and has excellent writing skills (est. CEFR level C1)