Curriculum Vitae

Joeri Leemans

Personal

Name:	Joeri Leemans	Native language:	Dutch
Sex:	Male	Fluent in:	French, English
Date of birth:	March 25, 1977	Notions in:	German, Italian

Studies

1995 - 1999	Master in Computer Science	University of Antwerp
1989 - 1995	ASO	Sint-Ritacollege Kontich

Certification

Certified Scrum Master
Sun Certified Java Programmer

Profile

During my studies at the University of Antwerp I first came into contact with Java. Whereas currently Java is an important enterprise platform, back then it was a programming language which was in its infancy phase, but nevertheless showed great promise from the start.

From my thesis - a study about the early "Enterprise JavaBeans" and related enterprise technologies - I made the logical step to Java/Java EE consultancy.

After a few years as developer, I evolved towards an architectural role. This role is often seen as an "ivory tower" type of role. I am convinced that this is not an efficient way of working, which is why I think a close collaboration with developers, analysts and other stakeholders is of the utmost importance. This is one of the reasons why I like to write and teach courses occasionally as well, in a way which is constructive and easy to understand for students. These courses range from object-oriented analysis and design, design patterns to Java EE development.

As team lead, I strive to deliver a quality product, settling for nothing less, and maintain a continuous open communication to project stakeholders. This is why I'm a strong believer in agile development methodologies, and have years of expertise as Scrum Master.

I have a broad interest in the whole software development life cycle. In my initial years of experience in the technical part of software development I quickly learned that a deep functional understanding of the underlying business domain is of the utmost importance. This has triggered my interest in being involved in the earliest phases of the software development life cycle, in which I can leverage my years of experience in object-oriented

analysis, design and programming to interact with customers, correctly capturing their requirements and working towards an optimal solution.

Career

CMG	After graduating in 1999 I started working for a small consultancy company: Softguide. They offered services in specific technical areas, with Java being one of them. Softguide was quickly acquired by CMG, later merged with Admiral IT, and was eventually acquired by Logica.
A.C.A IT-SOLUTIONS	At the end of 2002 I started working for ACA IT-Solutions, a company specializing in consultancy and project development revolving around Java technology.
9:5	After 11 years of consultancy as an employee, I started my own company (called "9to5", a wink to the flexible working regimen of consultants) and continue my career as a freelance consultant.

Assignments

Green Valley Online Smart Cities	**Green Valley Belgium - MidOffice business process**

Period:	May 2013 - Current
Role:	Lead Technical Architect Recruitment/coordination of near-shore development team
Description:	Green Valley Belgium is a daughter of Cipal and focuses on the implementation of software solutions to support governments, healthcare and non-profit organisations. My responsibility on this project was primarily to define and set up and architecture for the implementation of a complex mid-office business process, making sure that an acceptance-test driven development approach was set up and followed to ensure a permanent level of quality throughout the development phase. For this project I had to assemble and coordinate a near-shore development team. Afterwards my focus shifted more to defining a platform vision for the complete portfolio of the company's applications, with the aim of implementing modular well-defined components corresponding to the vision and strategy of Green Valley Belgium.
Technology:	Java EE 6, Spring 3.1, HTML5, JavaScript, CSS3 JBehave, Thucydides OSGi (Apache Felix) Amazon AWS (EC2) Linux GIT
Software:	IntelliJ Apache Tomcat, Apache Felix, MariaDB Atlassian JIRA & Confluence Alfresco DMS Invenso XPeriDo

right brain	**Right Brain Interface - Bhaalu TV**

Period:	October 2012 - Present
Role:	Software engineer
Description:	Bhaalu is a new TV experience platform, finally integrating internet and television in one intuitive navigation experience. It combines a rights-friendly cloud-DVR platform with a relaxing "right-brain" social interface – the result is truly groundbreaking. The bhaalu platform allows consumers to quickly and easily select television, movie and internet content they love without having to navigate content they dislike.
Technology:	Java EE 6, Groovy, Spring 3.1, HTML5, JavaScript, C Amazon AWS (EC2, CloudFront, S3, BeanStalk, RDS) Linux GIT
Software:	MySQL, Apache Cassandra ffmpeg, VLC

BNP PARIBAS FORTIS	**BNP Paribas Fortis - IMB Save & Invest**

Period:	April 2012 - Current
Role:	Technical Analysis Team Lead Business Analyst
Description:	Within the IMB SSC (Internet & Mobile Banking Shared Service Center), an additional set of applications is under construction, focusing on offering customers a platform which allows them to manage their investment portfolio and trade on several markets. As team lead of the technical analysts team, my responsibility is to make sure that business requirements are well understood and correctly translated into UML-based software specifications. This happens in close collaboration with functional analysts and architects, meanwhile leveraging our experience in order to improve the standard software development lifecycle for the whole BNP group. Frequent workshops with the France-based BNP group are organized in order to correctly capture the business domain and ensuring interoperability with other group assets which define a particular subset of domain entities.
Technology:	Java EE 5, Spring, UML
Software:	SpringSource Tool Suite IBM WebSphere IBM Rational Software Architect Atlassian JIRA

BNP PARIBAS FORTIS	**BNP Paribas Fortis - Site Factory Task Force**

Period:	January 2012 - April 2012
Role:	Task Force participant
Description:	In order to optimize their return on investment, the BNP Paribas group have organized some of their activities in SSC's (Shared Service Center).
	One of BNP Paribas Fortis' Shared Service Centers is responsible for the development of MIB (Mobile & Internet Banking), the next-generation banking platform supporting rich and mobile clients (such as iPad, GWT, ...). This platform will be deployed in different countries worldwide.
	Within this Shared Service Center, the Site Factory Task Force is defining the framework which operational entities can use as a basis for the development of their own mobile & internet banking solutions.
Technology:	Java EE 5, Spring, JAX-RS, jBPM
Software:	SpringSource Tool Suite IBM WebSphere IBM Rational Software Architect Atlassian JIRA

BNP PARIBAS FORTIS	**BNP Paribas Fortis - IMB Daily Banking**

Period:	April 2011 - current
Rol:	Technical analyst/architect Technical analyst team lead (from April 2012)
Description:	Within the Shared Service Center Internet & Mobile Banking (IMB) a number of applications are defined which are rolled out to several BNP operational entities in different European countries. The technical analysis of these applications consists of translating functional requirements to technical designs - UML and Java interfaces - which development teams use as a basis for application development. The daily banking domain focuses on the most frequently used applications by retail customers, such as product overview, statements, fund transfer, recipient management and budget management.
Technology:	Java EE 5, Spring, JAX-RS, jBPM
Software:	SpringSource Tool Suite IBM WebSphere IBM Rational Software Architect Atlassian JIRA

ING Bank - Java Business Logic Factory

Period:	April 2010 - March 2011
Role:	Factory Lead
Description:	With the concept of "software factories" ING attempts to group specific areas of expertise in order to be able to deliver software more efficiently. The expertise of the Java Business Logic Factory is to offer business logic in a standardized way, where the business logic potentially interacts with diverse backend systems. Certainly equally important as the software development aspect is the follow-up of the development by means of a well-defined process. Scrum is a central concept in the software factories. The Java Business Logic Factory is involved in a pilot phase to use IBM Rational Team Concert (Jazz) to manage the full plan-build-test cycle.
Technology:	Java EE 5, JAX-WS, EJB 3, JPA, JCA
Software:	IBM WebSphere Application Server (v6.1) IBM Rational Application Developer (v7.5) IBM Rational Team Concert (v2.0)

ING	**ING Bank - New Channel Security (NCS)**

Period:	September 2009 - June 2010
Role:	Application Owner, Developer
Description:	With the NCS project, ING wants to further evolve its Home'Bank platform by allowing its clients to use their debit card and a disconnected card reader for authentication and signing. An important component in this project is Gemalto Strong Authentication Server, and application which ING acquired to manage information about cards and users. As Application Owner, I was responsible for the rollout of this application in the ING infrastructure. Given my experience with this product, I was also involved in the development of an application used for the provisioning and updates of card and customer data to Gemalto Strong Authentication Server via a REST-ful API.
Technology:	Java EE 5, JMS, EJB, REST Maven JUnit, JMock
Software:	IBM WebSphere Application Server (v6.1) IBM Rational Application Developer (v7.5), Eclipse, Netbeans Gemalto Strong Authentication Server, Thales e-security nCipher suite

HDP & ARISTA	**HDP/AristA - Jethro**

Period:	May 2009 - August 2009
Role:	Business Analyst
Description:	HDP/AristA is a social legislation office offering many services to its clients. Some of these services require interventions (e.g. trainings, advice, intervening in mobbing incidents, ...). This requires a lot of manual effort from different HDP/AristA staff members. The Jethro project will simplify the intervention management process by automating the full life cycle of an intervention, ranging from the demand to the execution and billing of the intervention. This is the first HDP/AristA project to use a new AJAX-based architecture (DOJO toolkit) for its user interface, and EJB 3 & JPA for its back-end. In my role as business analyst, it was my responsibility to design the business processes and propose a detailed technical design, as well as implementing a prototype according to the design-by-contract method.
Technology:	UML, DocBook Java EE 5, EJB 3, JPA, DOJO Maven
Software:	Eclipse, Maven, Visual Paradigm Atlassian JIRA & Confluence

Ministerie van de Vlaamse Gemeenschap	**Ministerie van de Vlaamse Gemeenschap - Web-IDM**

Period:	Januari 2009 - March 2009
Role:	Architect
Description:	With the Web-IDM project the Ministry of the Flemish Community wants to build a centralized identity and access management platform. One part of the project was the rollout of Sun Identity Manager and related products, another part was the implementation of a web application that would allow local administrators to manage account information, and end users to manage the passwords of their own accounts (AD, LDAP). As architect my role in this project was mainly to optimize the development environment (e.g. Maven build environment, virtual machine servers, ...). On the other hand I was responsible for optimizing the development process (Scrum) and the general architecture and development of the web application.
Technology:	UML, Java EE 5, DOJO
Software:	Sun Java Application Server 8.1, Sun Identity Manager 7.1, Sun Directory Server 5.2, Windows 2003 Active Directory JSF, Spring Core, Spring WebFlow, Spring Security Maven, Hudson, TestNG, Mockito, Selenium Oracle 10g, MySQL 5 Eclipse 3.4 Atlassian JIRA & Confluence

ING **ING Insurance - RenewUL**

Period:	March 2008 - December 2008
Role:	Architect, Scrum Master
Description:	This project is an extension of the BEAM-project. An existing front-end application was ported from IBM's BTT-framework to JSF. There are new products, new functionalities and thus also new services. PDF documents which contain written communications to customers are now managed using the DOC1 document management system. My responsibilities in this project were architecture, design, implementation and support of the development team as Scrum Master.
Technology:	Java EE 1.4, EJB, JMS Java Server Faces
Software:	IBM WebSphere Application Server v5.1 / v.6.1 IBM Rational Application Developer v6.0 Oracle 10g Atlassian JIRA & Confluence

ING	**ING Insurance - BEAM**

Period:	July 2007 - February 2008
Role:	Architect, Scrum Master
Description:	Migration of a back end application (CMD - centraal medisch dossier) that offers services for medical acceptance procedures (required when subscribing to certain insurance products). The application was written in Advantage Cool:GEN, and needed to be rewritten to Java technology. A classical multi-tier application (facades/services, POJO domain model, Hibernate persistence) was developed. The existing DB2 database had to be migrated to Oracle. The communication tier of the existing front applications using CMD had to be migrated as well: "Amazing" is an application used by branch employees to guide a customer through the medical acceptance procedure. "MDM" is an application used by ING's medical department to manage follow-up of medical cases. My responsibilities in this project were architecture, design, implementation and support of the development team as Scrum Master.
Technology:	Java EE 1.4, EJB, JMS
Software:	IBM WebSphere Application Server v5.1 IBM Rational Application Developer v6.0 Oracle 10g Atlassian JIRA & Confluence

ING	ING Bank - Make An Appointment (MAP)

Period:	March 2007 - September 2007
Role:	Architect, Team Lead
Description:	The MAP project is a business-logic centered application that allows customers to directly make an appointment with a branch employee. The application implements the algorithm to select the most suitable employee to fill a time slot, as well as the logic to actually book the appointment in the employee's calendar (MS Exchange integration via web services).
Technology:	Java EE 1.4, EJB, Spring Framework 2.5
Software:	IBM WebSphere Application Server v5.1 MS Exchange 2007 Oracle 10g

	ING Bank - ING Auto Discount Management (DiM)

Period:	September 2006 - March 2007
Role:	Architect, Team Lead
Description:	With ING Auto, ING wants to offer its clients the possibility to subscribe to a car insurance policy online. ING Auto is essentially combination of several projects, Discount Management being one of them. The Discount Management application is responsible for managing promotional campaigns during which clients are entitled to certain discounts. It consists of a graphical user interface (JSF 1.1 based) for entering discounts, but also gets consulted by different channels to determine the discount for a particular client.
Technology:	Java EE 1.4, EJB, JSF
Software:	IBM WebSphere Application Server v5.1 Oracle 10g

	Universitair Ziekenhuis Brussel - BPM

Period:	June 2006 - August 2006
Role:	Architect
Description:	Assist the team in setting up jBPM for business process modeling on WebLogic 8 application server and determine best practices, investigate performance issues with regards to some business process implementations on WebLogic.
Technology:	Java EE 1.4, business process modeling
Software:	BEA Weblogic 8, JBoss jBPM, Sybase

	ING Bank - Service Management Knowledge Base

Period:	January 2005 - March 2005
Role:	Architect
Description:	ING had a previously existing application called "SMKB", which it used to monitor their servers and services according to the ITIL-methodology. The application was used to support operators in their task to monitor the different systems and to make the appropriate recovery procedures available to them. The existing application was poorly designed and hence suffered performance and scalability problems. This assignment revolves around architecting a new solution which solves these problems.
Technology:	Java EE 1.4, EJB 2, Hibernate 2, JSF
Software:	IBM WebSphere Application Server v5.1 Oracle 8

ING	**ING Bank - Customer Communication Layer (CCL)**

Period:	June 2004 - August 2006
Role:	Architect, developer
Description:	CCL (Customer Communication Layer) is a multi channel, bi-directional application that enables messaging to clients. Clients can receive messages over a multitude of communication channels (such as Home'Bank, Self'Bank or account statements). Messages can also be interactive, allowing for bidirectional communication between ING and its customers. CCL is a standalone, backend-centric Java application. It communicates with a wide range of other applications using different technologies.
Technology:	Java EE 1.3, Struts, Hibernate 2
Software:	IBM WebSphere Application Server v5.1 IBM WebSphere MQ 5.3 Oracle 8

A.C.A	**ACA IT-Solutions - miscellaneous courses**

Period:	March 2004 - August 2009 (occasionally)
Role:	Author and teacher of courses
Description:	Authoring and teaching multiple courses for clients and ACA colleagues: - Java Web development - Enterprise JavaBeans (both 2.0 and 3.0) - Java Design Patterns - Java EE architectuur (ranging from platform versions 1.3 to 5)

ING	**ING Bank - Proof-of-concept EJB technology**

Period:	September 2003 - March 2004
Role:	Architect, developer
Description:	Architecture and implementation of a proof-of-concept for the validation of J2EE EJB technology within ING. The validation was not purely technical: performance of different persistence solutions was evaluated, as well as different vendor tools. A reference architecture was implemented along with a set of 'best practices' and coding standards. There was also a strong focus on integration within the development organization. Two existing ING applications which were used in this proof-of-concept. They were rewritten using different persistence strategies: CMP, BMP, JDO and a custom implementation of the 'domain store' pattern. The implementations were tested extensively with regards to scalability and performance. Based on these results, the most appropriate solution in a particular context was chosen. The proof-of-concept showed that when choosing the right architecture and technology, significant performance gains can be achieved.
Technology:	EJB 2.0, JDO, Solaris
Software:	WebSphere Application Server 5.0 & 5.1 SunONE Studio 5 Solarmetric Kodo 2.5.4 JMeter

	S1 - WEIS

Period:	January 2003 - September 2003
Role:	Developer, coach
Description:	In 2001, a major financial group headquartered in Belgium, decided it was time to develop a bank-wide browser-based E-Banking application in replacement of the current range of domestic PC-based electronic banking application for corporate customers within the Group. S1 Corporate Banking offers the Bank a proven, reliable solution for delivering traditional online cash management and high- and low-value payment transactions. The multi-lingual and multi-currency capabilities of the solution enable the Bank to perform cash management functions across Europe and on a global basis. The software will be deployed in 8 different languages across all entities of the Group and will include International Cash Management (ICM) services covering over 20 countries, including Belgium, the Netherlands, United Kingdom, France, Germany, Hungary, Czech Republic, and Poland. The project 'Web-Enabled ICM Services', a multi-stage implementation of S1 Corporate Banking, provides the Bank with a standard, flexible infrastructure from which it can easily roll out future services to corporate customers across multiple interaction channels.
Technology:	Java EE
Software:	Eclipse Rational ClearCase

A.C.A	**ACA IT-Solutions - Tender Solutions / Eurotender**

Period:	January 2003 - September 2003
Role:	Developer
Description:	Euro-Tender is a software application for government instances and other tendering services, which doesn't only simplify European tenders, but also greatly improves their quality. The application structures a European tender in a step-by-step timeboxed plan. Euro-Tender is targeted at the actual legal procedures surrounding tenders. Because decision rules are centrally stored, it is possible to apply changes in those procedures without impacting the end users. A part of this project was the development of a documentation engine. It was my responsibility to architect and implement a documentation system which could be used by different client types (web clients, standalone applications, ...). The chosen solution was based on DocBook, with the ability to render different types of output.
Technology:	Java EE, DocBook
Software:	Netbeans

	Clear2Pay - Scheduler frontend

Period:	November 2002 - December 2002
Role:	Coach
Description:	Coaching of junior profiles in J2EE development in the implementation of a scheduler frontend (using Flux as its engine) for a J2EE application that handles money transfers between private persons and VISA.
Technology:	Java EE, Flux
Software:	Eclipse, CVS

	Dexia - aligning homebanking Bacob & Dexia

Period:	February 2002 - November 2002
Role:	Developer
Description:	After Dexia's acquisition of Bacob, it was decided to use Dexia's homebanking platform (Dexia NetBanking) for both user groups. This required modifications in the communication layer of Dexia's NetBanking and BusinessClick (NetBanking for corporate users) platforms.
Technology:	Java SE, Servlets, applets
Software:	IBM VisualAge for Java IBM WebSphere Application Server

	IBM Education Services - teaching courses

Period:	December 2000 - November 2002
Role:	Teacher
Description:	Regular (approximately every 2 months) teaching of courses about object-oriented programming & thinking, Java programming, Java EE
Technology:	UML, Java, Java EE

	Artesia Services (Bacob) - Gebabo

Period:	March 2000 - February 2002
Role:	Developer
Description:	Gebabo (Globaal Electronic Banking Abonnement) was an application to manage all of a customer's electronic subscriptions. Gebabo was a Swing-based application which used a C++ based application server (BEA TopEnd) via XML, as well as a BEA WebLogic application server.
Technology:	Java, C++, UML
Software:	Borland JBuilder, BEA TopEnd, BEA WebLogic, TogetherJ

Artesia Services (Bacob) - Bacob Direct Net

Period:	March 2000 - February 2002
Role:	Developer
Description:	Bacob Direct Net (BDN) was Bacob's homebanking application. It was a web-based application written using Java applets technology. Part of the project was also to develop a pilot for a WAP-based version of BDN targeted at mobile phones.
Technology:	Java, servlets, WAP, UML
Software:	Borland JBuilder, BEA WebLogic, Nokia WAP Gateway, TogetherJ

DVV - Coaching J2EE web development

Period:	December 1999 - January 2000
Role:	Coach
Description:	DVV wanted to develop an application that would allow its clients to access their insurance portfolio through a web interface. The internal development staff lacked expertise in this area and needed coaching in the area of web development and the surrounding tools.
Technology:	Java, servlets/JSPs
Software:	IBM VisualAge for Java

Dexia - Evaluation of office application frameworks

Period:	September 1999 - December 1999
Role:	Technical consultant
Description:	Evaluation of internally developed frameworks for GUI development of intranet applications. Within the group responsible for creating intranet applications, a framework was about to be built which would define a universal look for all intranet applications and simplify their development. Inside the team, two alternatives were developed, but Dexia required the relevant expertise in order to be able to evaluate these alternatives.
Technology:	Java, UML
Software:	IBM VisualAge for Java, TogetherJ