

Javad Heshmati

Enterprise Architect

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Sep. 2013 – Present.

Lead Enterprise Architect
Swiss Navigation Services
Geneva Switzerland

Sep. 2011 – Sep. 2013

Lead Enterprise Architect
Inno.com
Beerzel Belgium

PROFILE

Javad is a hands-on enterprise architect with 25 years experience in the industry. For the last 15 years, he has worked in senior architectural roles for a wide range of clients including the European Commission, Belfius Bank, AXA, ING, Atos, Inno.com and Skyguide. He combines strong Enterprise Architecture and technical leadership with a background that includes architectural strategy definition, complex system integration and IT transformations.

- Certified architect with extensive experience applying TOGAF on large scale transformation programmes.
- Extensive experience with Enterprise Application Integration (EAI), Event Driven and Service-Oriented Architecture (SOA).
- Solid experience working in cross-functional agile teams, defining architectural enablers and epics. Certified Scaled Agile SAFe practitioner.
- Strong leadership and stakeholder managements skills. Able to shift focus from details to big picture and create positive relationships with stakeholders.
- In-depth, hands-on technologist able to bridge the gap between business needs and technological realities.

EXPERIENCE

Leads the architecture team of the Virtual Centre (VC) programme in Switzerland. The VC programme is a large transformation initiative aimed at harmonising business processes and modernising the IT system landscape in the Air Traffic Control domain of skyguide. As the lead architect of the programme, Javad tailored and used TOGAF to establish the strategic target architecture and designed the transition roadmaps towards the target. The technical architecture is based on SOA and Messaging paradigms. The Scaled Agile SAFe is used as the development framework.

- Established the Target & Transition Architectures based on the corporate strategies, ratified it with the stakeholders, and led its step-wise implementation.
- Oversees the design of solution architectures and the selection of the key infrastructure building blocks such as the TIBCO messaging platform, the monitoring platform and the DevOps tool chain.
- Provides architectural guidance to a number of key projects including the SOA Governance project, the IT Security project and the Canonical Data Model project.

Carried out two major architecture engagements in the banking and insurance domains for inno.com clients: AXA and Belfius bank.

- AXA Bank & Insurance: led the architecture team of the IZI programme, a large multi-year transformation programme in the Property and Casualty (P & C) Insurance domain of AXA Belgium. The programme aimed to create an efficient P & C platform that was

flexible enough to reduce the time to market by 20%. The technical architecture was based on REST and SOAP services running on a cluster of Webmethod and Spring Boot nodes.

- Belfius Bank: worked closely with business stakeholders and the Enterprise Architecture team to streamline business processes in the Channel & Distribution domain. The technical landscape of the programme included SOA services deployed on Websphere, Oracle, and TIBCO Messaging.

Jun. 2009 – Sep. 2011

Enterprise Architect
European Commission
Brussels Belgium

Drew-up and agreed the vision and roadmap for the target architecture. Developed blueprints and architectural policies; analysed the architectural requirements; established the logical and physical architecture for the New Workflow Management System (NWFS), the primary workflow management system used at the DG Regio. TOGAF best practices were used to establish the Target Architecture. Oracle SOA Suite^{11g}, and OSB were used to support the realisation of the new workflow.

- Established the target architecture reducing the time to market from 180 to 60 days.
- Led the evaluation and selection of standards, middle-ware, and software products from multiple vendors including Oracle and TIBCO.

Feb. 2004 – Jun. 2009

Lead Solution Architect
ING Bank
Brussels Belgium

Led the architecture and design for three mission-critical applications: BTR, ASR and Cash Pooling in the payment domain. ING relied on these applications to provide real-time bank account information to its corporate customers world-wide.

- Balance and Transaction Reporting (BTR), established the architecture & design and oversaw the implementation. BTR was a mission-critical application that produced real-time account information to ING corporate customers world-wide. It was designed to support 180,000 corporate accounts and 1,500,000 transactions per hour. The application architecture was SOA based and MQ messaging was used as transport.
- Cross-Border Cash Pooling, led the enhancement of the fund & sweep feature of the Pooling application to better support ING corporate customers for balancing their account structures' cash level. The application was implemented using J2EE and deployed on a Websphere cluster.
- Auto-Send Reporting (ASR), established architecture & design and oversaw the implementation. ASR was an automated reporting framework for generating and distributing account structure information to ING corporate customers. The framework was implemented as a group of SOA services that communicated with one another via MQ messaging.

Feb. 1999 – Feb. 2004

Lead Solution Architect
Dixite
Brussels Belgium

Carried out several engagements during his time with Dixite. These engagements ranged from small applications for specialised users, up to very large corporate applications for public institutions such as the European Commission.

- CURIA II, European Court of Justice, designed and led the implementation of a custom search engine that consisted of an indexation engine and a search client (written in Java^{1.4}) to query 25 years of the European jurisprudence archive in 11 European languages.
- FIDES, European Commission, established architecture & design, and led the implementation. The application automated the management of fishery data using Internet technologies, accessible by national administrations in the EU Member States. The application supported 2,000 simultaneous transactions and was implemented in Java^{1.1}.
- Document Management, Joh. Enschedé, designed and led the implementation of a multi-tier application server to manage the production of 250,000 documents per day for the largest printing company in Belgium. The application was implemented in Java^{1.4} and its components communicated with one another via SOAP.

Dec. 1998 – Feb. 1999

Senior Lead Developer
SWIFT
Brussels Belgium

Participated in the design and implementation of a custom lightweight components GUI framework used at SWIFT. The framework included several GUI components that abstracted standard Java^{1.2} API. It provided a uniform look and feel to be used across all SWIFT front-end applications.

Aug. 1998 – Dec. 1998

Lead Developer
Euro. Investor
Waterloo Belgium

Participated in the analysis and design of the European Investor Portal. The Portal was an online-trading system that supported 11 European exchange markets as well as three American exchange markets. The application was written in Java^{1.2} and TIBCO Rendezvous was used for internal component communication.

Oct. 1996 – Aug. 1998

Lead Developer
Atos
Brussels Belgium

Designed and implemented the World Online Trading and Quote System (WOQATS), what was then the Europe largest online trading platform supporting 250,000 users and 10,000 simultaneous transactions. The application included front-end components (written in Java^{1.1}) that interacted with the back-end Stock Quote Server via TIBCO Rendezvous.

Feb. 1996 – Oct. 1996

Developer
STAR Lab
Brussels Belgium

Designed and co-implemented the Web For Schools (WFS) portal, a web based e-learning portal used by school teachers across the EU member states. It provided a user friendly web interface and supported 11 European languages. The application was written in Smalltalk and UNIX shell scripts.

Aug. 1994 – Feb. 1996

Developer
Distriplan
Antwerp Belgium

Participated in the analysis (using an object-oriented approach) and implementation of the user interface of the Wealth Plan application. Wealth Plan, was a financial planning application that tracked financial assets and provided their detailed visualisations. The core application was written in C language.

SKILLS

- *Architecture Methodology & Modelling*: Extensive experience with TOGAF⁹, ArchiMate³, RUP, UML, BPMN and OOA.

- *Architecture Paradigms & Tools*: SOA, Event Driven and Messaging, REST, SOAP. Rational Rose, Mega, Aris and Sparx EA.
- *Agile Frameworks & Tools*: Scaled Agile SAFe and Scrum. Confluence and JIRA.
- *DevOps & Programming*: GIT, BitBucket, Maven, Ant, Jenkins, JIRA, Sonar and Confluence. Java⁷, J2EE, Smalltalk and C. UNIX Shell scripting, AWK and Sed. BPEL, XML, XSL, XSD, HTML⁵ and CSS³.
- *Middleware & API Management*: Layer 7, Weblogic¹⁰, Websphere⁶, and Tomcat⁷. Oracle SOA Suite^{11g} & Fusion Middleware^{11g}. TIBCO BusinessWorks, EMS, HAWK, iProcess^{3.1}.
- *Operating System & Databases*: UNIX systems including Solaris, AIX and Redhat. DB2 and Oracle¹⁰.

EDUCATION

- Master in Software Engineering, [Vrije Universiteit Brussel](#), Aug. 1995 – Sep. 1996.
- B.Sc., Bachelor of Science, in Computer Science, [Vesalius College](#), Sep. 1990 – May. 1995.

CERTIFICATION

- ArchiMate³ Training, [Bizz Design](#), Jun. 2017.
- Scaled Agile SAFe Training, [Skyguide](#), Feb. 2016.
- SOA Suite^{11g} Certified, [Oracle Inc.](#), May. 2011.
- Fusion Middleware^{11g} Certified, [Oracle Inc.](#), Apr. 2010.
- TIBCO Certified Architect, [TIBCO Software Inc.](#), Jun. 2009.
- CMMI Training, [Software Engineering Institute](#), Dec. 2008.
- Certified J2EE Enterprise Architect, [Sun Microsystems](#), Sep. 1999.

LANGUAGES

- English: excellent writing and communication skills.
- French: fair writing and good communication skills.
- Dutch: very basic vocabulary.

PERSONAL PROJECTS

Javad is an active contributor to the Open Source community; most notably, he created the [Open Invoice](#).

REFERENCES

References are available upon request. In addition, some endorsements can be found on my [Linkedin page](#).