

PROFESSIONAL
BACKGROUND

Javad has worked as an Enterprise Architect for 15 years. For the last 20 years, he has worked in senior architectural roles on numerous missions for a wide range of clients including the European Commission, Belfius Bank, AXA, ING, Atos, and Skyguide. He combines strong Enterprise Architecture and technical leadership with a background that includes architectural strategy definition, complex system integration and IT transformations. His recent experience has focused in the aviation domain. He currently leads the Enterprise Architecture team at Swiss Navigation Services (Skyguide) to create an architecture vision and ratify it with business and IT stakeholders. He uses his hands-on TOGAF & SOA experience to help Skyguide achieve business performance through leveraging and modernising its IT.

QUALIFICATION

He holds a bachelor's degree in Computer Science from Vesalius College of Boston University and a master's degree in Software Engineering from VUB University.

- ▶ Over 15 years' experience providing architectural oversight and guidance to the C-level executives including CIOs and CTOs.
- ▶ Certified architect with extensive experience applying TOGAF^{8,9} on large scale transformation and modernisation programmes.
- ▶ Extensive experience in middleware and Application Services Architecture, with focus on Enterprise Application Integration (EAI) and service-oriented architecture (SOA).
- ▶ Strong 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.

PROFESSIONAL
EXPERIENCE

LEAD ENTERPRISE ARCHITECT
SKYGUIDE, GENEVA, SWITZERLAND

SEP. 2013
PRESENT

Leads the Enterprise Architecture team of Skyguide in Switzerland where he is charged with delivering the strategic Target Architecture and transition roadmaps; supporting the IT Group's planning; and fostering innovative solutions to challenging business problems. The Target Architecture aims to provide a group of Air Traffic Management services operating from different locations using service interfaces in such a manner that they are perceived as a single system. TOGAF was used to establish the Virtual Centre Target & Transition Architectures. Corporate strategies, goals and IT constraints including Non-Functional Requirements were examined before designing the transition roadmap. The technical architecture is based on SOA paradigm. The system is *life-critical* and it is designed to provide a *high-availability* of 99.9999%. Javad's achievements includes the following:

- ▶ *Established the Target & Transition Architectures for skyguide*, ratified it with the stakeholders, and championed it across the IT department. Javad went on to lead the team which designed and deployed the underlying SOA foundations required for the Target Architecture.
- ▶ *Oversees the specification and selection of the SOA infrastructure* including the SOA platform, the ESB and the Virtualization Platform.
- ▶ *Provides architectural guidance* to a number of key projects including the SOA Governance project, the IT Security project and the Canonical Data Model project.
- ▶ *Supports the CIO and the Chief Architect* in drawing up and agreeing the roadmap for all areas of IT.

ENTERPRISE ARCHITECT FEB. 2013
 BELFIUS BANK, BRUSSELS, BELGIUM SEP. 2013

Worked closely with business stakeholders and the architecture team to investigate areas where SOA & BPM initiatives could be implemented to streamline processes. BPM Programme was a strategic programme in the Channel & Distribution domain of the Belfius bank. It aimed to improve the efficiency of sales flows, automate manual steps and streamline the processes. The technical landscape of the programme included SOA services deployed on Websphere, Oracle, and Tibco Business Works. MQ was used as the messaging backbone.

- ▶ *Provided architectural recommendations* to reduce paper overhead and cut operating efforts by 15%.
- ▶ *Carried-out product evaluation* from several vendors including Oracle, Software AG and Tibco.

ENTERPRISE ARCHITECT SEP. 2011
 AXA BANK & INSURANCE, BRUSSELS, BELGIUM JAN. 2013

Assessed the existing architecture and provided a set of recommendations for improvements. Led the offshore development team. Followed TOGAF best practices and leveraged the concepts, principles of SOA and EAI to establish the IZI programme, a large multi-year programme in the Property and Casualty (P & C) Insurance domain of AXA Belgium. It aimed to create an efficient P & C platform that was flexible to reduce the time to market and increase quality of services provided to AXA brokers. The technical platform included DB2, Oracle, J2EE and Spring.

- ▶ *Developed the Software Delivery Life Cycle* for the programme used when working with the offshore development teams, including Tata Consultancy Services (TCS).
- ▶ *Advised the Chief Architect* and the Programme Manager in all areas of the programme architecture.
- ▶ *Carried out an architecture assessment* and developed a set of recommendation for incremental improvements. He then led the team who implemented the recommendations.

ENTERPRISE ARCHITECT JUN. 2009
 EUROPEAN COMMISSION, BRUSSELS, BELGIUM SEP. 2011

Drew-up and agreed the vision and roadmap for the target architecture. Developed blueprints and architectural policies; analysed the architectural requirements and established the logical and physical architecture for the New Workflow Management System (NWFS), the primary workflow management system used at the DG Regio. It provided electronic support for the main financial and decisional procedures related to the usage of the EC funds. It enabled the EC to ensure full compliance with regulations and kept an audit trail of each decision taken. TOGAF best practices were used to establish the Target Architecture. SOA was chosen as the style of the target architecture. Oracle SOA Suite^{11g}, BPM, 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.
- ▶ *Advised the Head of IT and Led the SOA development team* in the pilot phase of the new workflow project.

LEAD SOLUTION ARCHITECT FEB. 2004
 ING BANK, BRUSSELS, BELGIUM JUN. 2009

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

- ▶ *Balance and Transaction Reporting (BTR)*, established architecture & design and led 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 style was SOA and included several J2EE modules running on multiple Websphere clusters.
- ▶ *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 IAF was used as the architecture methodology and SOA was used as the style of the architecture. The application included several J2EE modules running on a Websphere cluster.
- ▶ *Auto-Send Reporting (ASR)*, established architecture & design and led the implementation. ASR was an automated reporting framework for generating and distributing account structure information to ING corporate customers. The framework supported large documents—10,000 pages—published in various formats including PDF and HTML. The framework was implemented as a group of SOA services that communicated with one another via MQ.

LEAD SOLUTION ARCHITECT
DIXITE, BRUSSELS, BELGIUM

FEB. 1999
FEB. 2004

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.
- ▶ *News-up, Media Values*, designed and led the development of an online news platform for Media Values. It provided the communication among press news team members. The application was implemented whereby each writer could enter his information directly into the master product through a GUI. The final product was transformed to XML, HTML, RTF and PDF formats and dispatched to customers. The application was implemented in J2EE running on Domino Server.
- ▶ *FIDES, European Commission*, established architecture & design, and led the implementation. FIDES automated the management of fishery data using Internet technologies, accessible by national administrations in the EU Member States and the European Commission. The application supported 2,000 simultaneous transactions via HTTP, FTP, SMTP, and X400 protocols. It was written in Java^{1.1} and included a kernel and multiple channels that supported the communication infrastructure linking the European Commission and administrations in the EU member States.
- ▶ *Online Banking, Stroove Bank*, assessed the architecture of the online banking and provided a set of recommendations for improvements. The system was implemented in J2EE and included several modules running on Websphere and communicated via Tibco Messaging.
- ▶ *Document Management, Job. Enschedé*, designed and led the implementation of a multi-tier application server—written in Java^{1.4}—to facilitate the document production and management for the largest printing company in Belgium. The requirements included support for high volume of documents—250,000 documents (each document of 3,000 pages) per day. A distributed design was chosen to be able to scale and run the application components on multiple UNIX servers. The components communicated with one another via SOAP.

SENIOR LEAD DEVELOPER
SWIFT, BRUSSELS, BELGIUM

DEC. 1998
FEB. 1999

Participated in the design and implementation of the custom lightweight components GUI framework used at SWIFT. GUI Framework, the framework included several GUI components that abstracted

standard Java^{1,2} API. It provided a uniform look and feel to be used by SWIFT applications. Moreover, the framework components complied with the internal SWIFT guidelines and standards.

LEAD DEVELOPER AUG. 1998
EUROPEAN INVESTOR, WATERLOO, BELGIUM DEC. 1998

Participated in the analysis and design of the European Investor Portal. European Investor Portal, an online-trading system that supported 11 European exchange markets as well as three American exchange markets. The portal was used by professional traders. The application included a Java engine that communicated with its sub-systems via Tibco Messaging and Rendezvous.

LEAD DEVELOPER OCT. 1996
ATOS, BRUSSELS, BELGIUM AUG. 1998

Developed the non-functional requirements and detailed design specifications for what was then the Europe's largest online trading platform—supported 250,000 users and 10,000 simultaneous transactions. Designed and developed the World Online Trading and Quote System (WOQATS), an high-precision trading system to implement time-based (millisecond) trading platform used by individual investors and traders. It interfaced with a wide range of heterogeneous financial feeds including the Reuters feed and trading platform. The application included front-end components (written in Java^{1,1}) that interacted with the central Stock Quote Server—written in C, running on UNIX—via Tibco Messaging.

DEVELOPER FEB. 1996
STAR LAB, BRUSSELS, BELGIUM OCT. 1996

Captured requirements, produced detailed object-oriented design, and implemented the WFS application. Web For Schools (WFS), was a web based e-learning application 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.

DEVELOPER AUG. 1994
DISTRIPLAN, ANTWERP, BELGIUM FEB. 1996

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 detailed visualisations of user investments and recommendations on how to manage them. The application architecture was a two tier client/server and it was written in C++. The user interface was implemented using the ZINC framework.

SKILLS SUMMARY

Architecture Frameworks & Methodology: extensive experience in providing architectural guidance on strategy, vision, blueprints, roadmaps and architectural policies. Extensive experience with TOGAF^{8,9}, EAI, SOA, IAF, ATAM, and ArchiMate. Extensive experience with tools such as Rational Rose, JAZZ, TogetherJ, Mega, Aris, Sparx EA and Archi, RUP, UML, OOA, and XP. Extensive experience in Scrum and Agile Software development.

Operating System & Middleware: UNIX systems including Solaris, AIX and Redhat. Limited experience with Windows. Weblogic^{9,10}, Websphere^{5,6}, and Tomcat^{6,7}. Limited experience with JBOSS and Jetty. Oracle SOA Suite^{11g} architect & Fusion Middleware^{11g}, JBoss Fuse, Camel. Extensive experience with BPM, Tibco Messaging, iProcess^{3,1}, iPlanet LDAP, Open LDAP, and SSO. Limited experience with Tivoli. Oracle^{7,10}, DB2, and MySQL.

Development & Quality Control: extensive experience with Object-oriented design and programming—Java^{1 to 7}, J2EE and Smalltalk. Extensive experience with UNIX Shell scripting, AWK and Sed.

Limited experience with C, C++ and BPEL. XML Schema design, XMLSpy, XSL, XPATH, SOAP, JAX-WS, HTML5, and CSS3. Quality Center and JIRA. Limited experience with Sonar. Clear Case, Dimensions, Subversion, Mercurial and CVS. Maven, Hudson, Jenkins, Ant, and Make. Extensive experience in technical-writing using: DocBook, and \LaTeX . Limited experience with MS Office, Archi and Aris.

EDUCATION

- ▶ *Master of Science in Computer Science, Vrije Universiteit Brussel* — Aug. 1995 until Sep. 1996.
- ▶ *Bachelor of Science in Computer Science, Vesalius College of Boston University* — Sep. 1990 until May 1995.

CERTIFICATION

- ▶ *Certified Architect, Oracle Inc.* SOA Suite^{11g} — May 2011, Reference: 5753423.
- ▶ *Certified Architect, Oracle Inc.* Fusion Middleware^{11g} — Apr. 2010. Reference: 5200904.
- ▶ *Certified Architect, Tibco Software Inc.* Business Works, SOA and iProcess^{3.1} — Jun. 2009.
- ▶ *Certified Practitioner, Software Engineering Institute.* CMMI — Dec. 2008.

LANGUAGES

- ▶ *English*, excellent writing and communication skills.
- ▶ *French*, fair writing and good communication skills.
- ▶ *Dutch*, very basic vocabulary.
- ▶ *Farsi*, mother tongue.

HOBBIES

Plays football, reads books, and listens to music. He also writes and co-maintain [Free Software](#). More information about him can be found from his website at javad.khakbaz.com.

REFERENCES

[Linkedin](#) recommendations can be consulted online and written references are available upon request.