

Nicolas DUMINIL

Senior Java/J2EE Architect/Developer

SIMPLEX SOFTWARE EURL

26 Allée des Sapins, 95230 Soisy, France

T: +33(0)1 34-05-09-62

M: +33(0)7 81-44-25-58

Email: nicolas.duminil@simplex-software.fr



Master Degree at the Ecole d'Ingénieurs en Electronique et Electrotechnique (ESIEE), Noisy le Grand, France

DEA (Diplôme d'Etudes Approfondis) at University Pierre et Marie Curie Paris VI, France

Certifications:

- Sun Java Certified Programmer
- Microsoft Certified Solution Developer (VC++, SQL Server)
- Oracle Certified Database Administrator
- Vitria certified professional
- AWS Certified Developer
- Java 11 SE Certified Developer

Contributions:

- Professional blog: <http://nicolasduminil.blogspot.com/>
- LinkedIn profile: <https://www.linkedin.com/in/duminilnicolas/>
- Published books: <https://www.amazon.fr/Nicolas-Duminil/e/B004NA7WC2>



Nicolas Duminil



<https://www.editions-eni.fr/nicolas-duminil>





Background

I have 25 years of experience in software development and IT-consulting.

During two decades I have architected and developed enterprise applications in Java SE and Java EE, with application servers like JBoss/EAP/Wildfly or IBM WebSphere and Oracle WebLogic.

I have a vast experience with integration, Service Oriented Architecture (SOA) and Portal applications on RedHat Jboss/Wildfly/Fuse, Oracle WebLogic, SOA Suite, Service Bus, WebCenter and IBM WebSphere/Portal/MQ/MB.

In the last 5 years, I became a microservices expert on Spring Boot, K8s, Quarkus and Eclipse Microprofile platforms, with high exposure on devops and cloud technologies.

Relevant experience

Simplex Software SARL, Paris, France from May 2004 to present. Owner. I created my own company in May 2004 in order to provide on its behalf services to my customers. Here are the most recent and relevant contracts.

- **Single Resolution Board (SRB), Brussels, Belgium**, from March 2019 to present. SRB is the central resolution authority within the European Commission. As a Lead Software Architect/Developer/Devops, I'm in charge of

the project RDS (Reference Data Services) aiming at collecting and centralizing in a historical manner all the data concerning banks in the European countries.

Software development and implementation in Java, Spring Boot/Eclipse Micro-profile based micro-services, IBM WebSphere 9, Oracle WebLogic, Oracle DB, REST, JPA, Hibernate, Apache Spark, Apache Camel, Apache CXF, Apache ActiveMQ/Kafka, Eureka, Hystrix.

DEVOPS expertise (Docker, Docker Swarm, Docker Compose, Komposer, Helm, K8S, K3S, K9s, MiniKube, Lens, Kustomize, Minishift).

Cloud expertise: AWS (EC2, S3, EBS, CloudWatch, VPC, RDS, Route53, CloudFront, Lambda, EKS, ECS).

- **Coface (Paris), Telefonica (Munich), SCOR (Paris), Lapeyre (Paris), Vlaamse Overheid (Brussels)**, from January 2018 to March 2019. Senior Software Architect, Lead Developer, Microservices/Cloud expert. Migration of Oracle SOA Suite applications and services to microservices based architecture using Oracle WebLogic, IBM WebSphere and JBoss Fuse/Apache Karaf (OSGi), SpringBoot/SpringCloud and Wildfly Swarm platforms. Reimplementation of BPEL code in Java SE/EE with Apache Camel, Apache CXF, Eureka, Hystrix, Zuul, Zipkin and cloud deployment (AWS, OpenShift, CloudFoundry) in a devops context (Docker, Compose, Swarm, Kubernetes) with CI/CD and IaC (Infrastructure As Code) technologies like Jenkins, maven, Nexus, Artifactory. Transformations with Apache Spark. Messaging with Apache Kafka and topology of nodes and pre-event processing with Kafka Streams.
- **BNP Paris-Bas Fortis**, Bruxelles, from March to December 2017. Senior Software Java EE/DevOps/Cloud Architect/Developer, digital signature shipyard. Adoption, qualification and implementation of a digital signature solution (DocuSign, QuickSign) at the scale of the whole infrastructure of the Cetelem et AlphaCredit partners. Design, development, unit, acceptance and integration tests of REST API (JAX-RS) and SOAP (JAX-WS) in Java EE 7 with WebSphere and Wildfly application servers, platforms Apache Karaf (OSGi), Apache HTTP Server and MongoDB databases.

Asynchronous web services using JMS messaging solutions. DevOps centric approach based CI/CD pipelines with Jackson, Docker, Kubernetes, Vagrant, VirtualBox, Ansible. Cloud provisioning with OpenShift, CloudFoundry, AWS.

- **La Poste**, Paris, France, from September 2016 to february 2017. Senior Java EE Architect/Developer. Back-end services design, development and delivery with Java EE7, Java 8, Wildfly, JBoss Fuse (OSGi), JAX-RS/JAX-WS, JPA, JMS, Spring Boot, EJB, Camel, ActiveMQ, Apache CXF, Apache Directory Server. DevOps using OpenShift, AWS EC2, AWS VPC, AWS Batch, AWS Elastic Beanstalk, Ansible, Docker, Kubernetes, VirtualBox, Vagrant. Agile methodologies.
- **RABO Bank**, Utrecht, Netherlands, from October 2015 to September 2016. Senior Architecte/Développeur, portal expert. As a tech lead inside the RCC Portal department, responsible of JSR-286 portlet development and deployment, in Java, with Wildfly, AngularJS, jQuery/jQueryUI, jQuery Mobile, Apache Cordova, Backbone.js, Bootstrap. Enterprise services design, development and deployment, with JPA 2.0 (object-relational mapping), JAX-WS 2, JAX-RS 2, EJB 3.1, JMS, SpringBoot. Production support, administration and performances tuning of WebSphere AS and WebSphere Portal 7/8. Oracle database optimization. Micro-services deployment in isolation with lite containers (Dockers) and CloudFoundry. Continuous Integration with Git, Nexus, Maven, Jenkins. Agile methodologies.
- **ERDF**, Nanterre, France from October 2014 to October 2015. Senior SOA Architect/Developer. As a technical leader of the ERDF Integration department, responsibility in the inception, development and deployment of the enterprise services. Organisation of POCs and workshops around Oracle WebLogic 12c, Oracle SOA Suite, BPM/BPEL, JMS, WebServices, JAX-WS, JAX-RS, JMS. Integration of mobile front-ends with Apache Cordova for Android, iOS and Windows Phone environments. Graphical User Interfaces with AngularJS. Virtualisation based on VmWare, Virtual Box, Vagrant, Xen and Red Hat Enterprise Virtualisation solutions. Services provisioning with Puppet, Chef and Ansible. Services deployment in isolation using light containers (Dockers). Continuous Integration with Git, Nexus, Maven, Jenkins.
- **ING**, Bruxelles, Belgium, from octobre to december 2014. Senior Architect/Developer in charge of a migration solution based on IBM WebSphere. Analysing the risks related to the utilisation of year 2000 technology (Struts, Castor, Hibernate 2 natif, Drools 1, BIRT 1) as a software foundation for the SingleView Portal, dedicated to the customer and contact management by the HomeBank system. Strategy definition to migrate to current technologies (JSF2/Apache MyFaces, JPA/Hibernate 4, JAX-B, Drools 5, etc.). Object-relational mapping and database optimization. Prototyping and testing. Java SE 7, Java EE 6, JBoss EAP (Wildfly), JBoss Portal/Gatein, Subversion, Nexus, Maven, Jenkins.
- **Société Générale Equipement Finance**, Rueil Malmaison, France, from september to october 2014. Project Manager/Integration Architect for BPM (Business Process Modeling) solution. Short term contract to analyse and qualify BPM stacks and tools, integration et implementation strategies in the enterprise context, process modelling, deployment, capacity planning, performances analyze and optimisation. Java SE 7, Java EE 6, Oracle WebLogic Server, Oracle BPM/SOA Suite, Oracle PaaS, BPM/BPEL, JSF/ADF, Nexus, Maven, Jenkins.
- **Legal and General Investment Management**, London, from August 2013 to September 2014. Senior SOA Architect/Developer. SOA software design and development with Java EE 6, Oracle SOA Suite, Oracle Service Bus, Oracle JDeveloper, ADF, Oracle Fusion Middleware, Oracle WebLogic, BPM/BPEL, Oracle Database 11g/12c. Agile methodologies.
- **Student Loan Company**, Glasgow, from January 2013 to July 2013. Senior SOA Architect/Developer. SOA software design and development with Java EE 6, JBoss EAP 6 (Wildfly), JBoss Portal 6.1, JBoss SOA-P 5.3, JBoss BRMS 5.3, Drools, Jboss Seam, RichFaces, Drools, jBPM, Guvnor, Web Services, JPA, JAX-WS, JAX-RS, JMS, JAXB, XML, Apache SOLR. Configuration management with Subversion, maven/Nexus/Artifactory, Jenkins. Agile methodologies.

- **Unic BV**, Amsterdam, from April 2012 to December 2012.
Support contract to provide expertise for Apache Karaf, Apache ServiceMix (Fuse Service Bus), Apache Camel (Fuse Integration Broker), Apache ActiveMQ (Fuse Message Broker), Apache SOLR, FuseIDE, Apache CXF, JSF, Web Services, JPA, JAX-WS, JAX-RS, JMS, JAXB, XML, Xpath, Xquery, XSLT in the field of the software architecture, design and development. Agile methodologies.
- **CAP Gemini**, Brussels, from January 2012 to April 2012.
Support contract to provide expertise for JBoss Fuse Platform, JBoss ESB, JBoss Business Rules Management Platform (Drools), jBPM, Jboss BPEL, JBoss Seam, Richfaces/JSF.
Software architecture design/development in Java EE 5 and OSGi, with Jboss (Wildfly) Fuse, JBoss ESB, JBoss EPP 5, Apache Camel, Apache ActiveMQ, JBoss Drools, JBoss jBPM, MySQL, Apache ServiceMix, Apache CXF, Web Services, JAX-WS, JAXB, JMS, XML, Xpath, Xquery, XSLT.
- **Deutsche Boerse Systems AG**, Frankfurt am Main, from January 2010 to December 2011.
Senior SOA Architect/Developer. Participation to the design, development, implementation and production of the OptimISE project, a new modern e-trading systems for ISE (International Securities exchange).
Software architecture design/development in Java EE 5, with JBoss AS 5/6 (Wildfly), JBoss ESB, JBoss EPP 5, Apache Camel, Apache ActiveMQ, JBoss Drools, JBoss BPM, JBoss Seam, RichFaces, MySQL, Apache ServiceMix, Apache CXF, Web Services, JAX-WS, JMS, JAXB, XML, Xpath, Xquery, XSLT. Agile methodologies.
- **Banque de France** Paris, from January to December 2009
Senior Architect Web 2.0/Java EE
Feasibility study of the migration of a financial application, from the client-server technology to Web 2.0, Java EE
Analysis, solutions design and development, POC (Proof of Concepts), validation, tests, prototyping.
Full "kerberization" of the production environment (JBoss (Wildfly), WebSphere, Apache maven, Apache Archiva, Sonatype Nexus, Hudson, etc.) using SP-Nego plugins and GSS API.
SSO implementation with SAML.
Suse Linux Enterprise 11, JBoss AS 5/jBPM and WebSphere
- 6.1/7.0, Java, Eclipse, Apache ServiceMix, MySQL 5, Subversion, maven, ant, ws*.
- **VSC Technology** Levallois, France, from August 2008 to January 2009.
Senior Architect Java/J2EE for the traveling site voyages-sncf.com
Feasibility study to replace the ESB BEA AquaLogic Service Bus by OpenSource products as JBoss(Wildfly) ESB/jBPM and Apache's ServiceMix.
Definition of DAT (Dossier d'Architecture Technique) and SOA prototype development with Oracle Workshop et Oracle WebLogic Server/Portal.
SSO prototyping with OpenSSO and SUN Java System Access Manager.
- **CAP-GEMINI Outsourcing**, Saint-Cloud, France, from January to December 2008
SOA Senior Architect/Project Manager/Lead Developer.
Environment: Linux Suse/RedHat, Windows XP/Vista, IBM-DB2, JBoss(Wildfly) SOA Platform (ESB, jBPM), JBoss Portal, IBM WebSphere, BEA AquaLogic, Eclipse/RAD (Rational Application Developer), Java EE 5, EJB 3, JMS, Web Services, Hibernate, Spring, .NET, C#, Visual Studio 2008.
Tasks: PMU (Paris Mutuel Unique) SOA, Java EE, .NET software design and development.
Software architecture definition, inception of the whole system's layers and components, development and unit testing of software components of the presentation layer (JSF, Facelets, RichFaces, ICEFaces, MyFaces, Seam, ASP.NET) service layer (EJB3, Web Services, JAX-WS, JAXB, Hibernate, Spring, .NET), management of a 10 persons team (developers).
- **ATOS Origin**, Paris La Défense, France, from June to December 2007
Senior J2EE Architect/Project Manager.
Environment: SunOS, Oracle10g, JBoss (Wildfly), Tomcat, Eclipse, Java EE 5, EJB 3, Hibernate, Spring.
Tasks: In charge to re-design and re-develop the Helios system, an enterprise application dedicated to the Finance Ministry, from

its genuine technology Forté/UDS, to Java/J2EE with Spring, EJB3 on Jboss application server. Management of the 4 persons team.

- **CALYON**, Courbevoie, France, from May 2006 to June 2007
Senior J2EE Architect.
Environment: JBoss 4.x(Wildfly), JBoss Portal 2.4, JBoss Seam, BEA WebLogic 9/10 (Server, Portal, Integration, Workshop), IBM WebSphere 6, Rational RAD/RSA, Oracle 10g, Sybase 15, MySQL 5, Apache, Tomcat, Hibernate 3, EJB 3, JMS, JSP, JSF, Apache MyFaces, Tomahawk, Ajax4JSF.
Tasks: To evaluate, qualify and generalize for all the company's Java/J2EE development projects the development tools RAD/RSA, as well as Eclipse platforms.
Definition, design and development of a CI (Continuous Integration) platform, based on the Apache's Continuum server. This CI system has been generalized for all the company's projects (several hundreds).
Web services standard definition in order to insure the intercommunication between J2EEE and .NET platforms.
To study different open-source JSF/Ajax libraries and to qualify Apache MyFaces, Tomahawk and Ajax4JSF. This libraries have been generalized to all the company's suitable projects.
- **Peugeot - Citroën SA**, St Ouen, January to May 2006
Senior J2EE Architect/Developer/Project Manager.
Environment: IBM WebSphere 5/6, NetWork Deployment, IRAD/WSAD, AIX, z/OS, DB2, Oracle 10g, .NET, MS Visual Studio, C#
Tasks: Portalizing J2EE WebSphere application, running currently on z/OS, to Unix with WebSphere and WebSphere Portal. Network Deployment installation, cell/nodes administration, cluster management, load balancing configuration, performances optimisation. Management of a 6 persons team.
- **Finance Ministry**, Brussels, Belgium September to December 2005.
Project Manager/Senior Developer.
In charge of an inhouse Java/J2EE development framework, including web, business, service and persistence tier.
Environment: BEA WebLogic Server/Portal/Integration, IBM WebSphere AS, Portal, JBoss (Wildfly), Spring. Hibernate, Ibatis, JBuilder, Together Architect, IBM Rational Application Development. Management of a 6 persons team.

- **EADS**, St Quentin en Yvelines, France April to September 2005
Senior J2EE Architect/Project Manager/Senior Developer.
Environment: BEA WebLogic Platform (Server, Express, Portal, Integration, Workshop) LiquidData, Spring, Tuxedo, Solaris, Oracle, .NET, MS Visual Studio, C#
Tasks: SOA design, software development and implementation of a homeland security system based on an ESB (Enterprise Service Bus) solution using BEA Aqua Logic, WebLogic Integration BPM (Business Process Modeling), and controls (Service Broker, etc.). Portal development with BEA Weblogic Portal 8.1.
Web Services development with BEA WebLogic Server 8.1 and 9.0. Management of a 5 persons team.
- **O2** - January 2005 to March 2005 , Munich, Germany
Senior J2EE Architect/Project Manager/Developer.
Environment: HP-UX 11.0, JBoss 4 (Wildfly), TOMCAT 5, HIBERNATE 2/3, ORACLE 10G, XMLBEANS, APACHE AXIS, WEBSERVICES, SPRING, ECLIPSE, .NET, MS Visual Studio, C#
Tasks: Aspect Oriented Programming application development. Inversion of Control, Dependency Injection technology based software. Small team management.
- **EDF-GDF** - September 2004 to December 2004 , Issy les Moulineaux, France
Senior J2EE Architect.
Environment: J2EE, IBM WebSphere Server and Portal Server 5.1, IBM HTTP Server, Java, IBM WSAD/WSSD 5.1, Eclipse, Struts, JSF, Servlets, JSP, Internet Explorer 5.5, HTML 4.0, XML, DOM, JDOM, DOM4J, XSLT, Jakarta (Commons Logging, Log4J, ANT)
Tasks: Network deployment architecture, clustering deployment, problem determination and performance tuning support.
- **Customs & Excise Southend on Sea**, December 2003 to August 2004, UK
Senior J2EE Developer.
Environment: Windows XP/2003, Solaris, Oracle 9i, BEA WebLogic Platform 8.1 (Server, Portal, Integration), BEA Workshop, Together
Tasks: Java/J2EE software development with BEA WebLogic Server/Portal and BEA Workshop (PageFlows, Controls, EJB, JSP, Portlets)
UML design using Rational Rose and Together.
BEA WebLogic Server/Portal/Integration administration and deployment.

Foreign Languages

- French: principal language
- English: fluent
- Italian: fluent
- German: elements

Expected Work

- Microservices architecture, design and development in Java, Spring Boot, Eclipse Microprofile, Quarkus
- Devops engineering on K8s, AWS and GCP platforms
- Cloud native architecture design and development on AWS (CloudFormation, Lambda, DynamoDB, SQS, ECS, ECR, EKS) platforms.
- Design, development, architecture of Java SE/Java EE applications with WebSphere, WebLogic, JBoss application servers.

References

- Raphaël DARCHY, Aston Carter International, T : +44(0)20 7324 7978, email : rdarchy@astoncarter.com
- Pierre BERZON, Keynan Technologies, T : 01 49 11 32 77, email : pberzon@keynan-technologies.com
- Thierry DAGAUD, Responsable Développement, CAP GEMINI, 55 quai Marcel Dassaut, 92210 Saint Cloud, T : 01-41-12-97-18, email : thierry.dagaud@capgemini.fr
- Sébastien DUVERNET, Responsable Développement, VSC Technologies, 7 rue Pablo Neruda, 92300 Levallois Perret, T : 01 45 19 29 39, email : SDuvernet@vsc-technologies.com
- Jules KEMGNE, Project Manager, CALYON, 25 Quai du Président Paul Doumer, Courbevoie, T : +33(0)1 41-89-66-23