

# Nathanaël COTTIN

# Software Engineer



45 years old, married, 4 daughters  
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**Project management**  
**Analysis, conception**  
**JEE, SOA architectures**  
**Web development**

## Technical skills

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Modeling	UML 1.4 (argoUML, bouml), UML 2 (Enterprise Architect)
Development	Java 11, Bootstrap 3, angularJS 1, jQuery 2, HTML 5, CSS 3, JSON, C++, C#, maven, SVN, MTOM
Quality	JIRA, HPQC, JUnit, SonarQube, TeamCity
Database	Oracle 11g, SQL Developer, Sybase
Misc.	IT security (PKI), web services (SOAP, REST), applications servers (Tomcat)

## Complementary skills

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Team skills	Team management (7 junior and experienced developers at EID-Crédit Mutuel), analysis, conception and development, Agile (Scrum)
Documentation	Requests for proposals, bills of specifications, detailed functional specifications, detailed technical specifications, research articles
Teaching	To IT engineers in their last year before graduation for more than 10 years: web development (SOA, application servers), IT security (PKI, cryptography)

## Career

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Swiss AS	<i>Since 09/2017</i>	Software Engineer
AGILIS-SFEIR	<i>2011 – 2017</i>	Technical expert, conceptor, developer
UTBM, ENSICAEN	<i>2004 – 2011</i>	Post-doctorals in healthcare, automotive industry and monetics

## Swiss Aviation Software, Basel, Swiss

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Contribution in research and development of AMOS software to manage maintenance, engineering and logistics in aeronautics.

**Technologies:** Java, XML Schema, XML, SOAP, REST, SoapUI, XML Spy, SVN, Sybase

## Professional projects at SFEIR EST (formerly AGILIS-SFEIR)

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Capgemini (90, Meroux)	<i>2017-03 – 2017-08</i> <b>Experienced conceptor and expert developer</b> Take part of CORAIL supply chain management software development for PSA <b>Technologies : eclipse, SQL Developer, spring, struts, hibernate, JIRA</b>
BPF (25, Sochaux)	<i>2014-04 – 2017-03</i> <b>Experienced conceptor and expert developer</b> Electronic signature responsive web application conception and development for "Banque PSA Finance" <b>Technologies: eclipse, SQL Developer, Bootstrap3, jQuery, spring, struts, hibernate, HTML5, CSS3, HPQC, SonarQube, JIRA, SOAPUI</b> Miscellaneous "proofs of concepts" conception and development <b>Technologies : angularJS, Bootstrap3, HTML5, CSS3, iText, inkscape</b>

ÉS (67, Mundosheim)	2013-06 – 2014-04 <b>Technical advisor and expert developer</b> Électricité de Strasbourg applications maintenance <b>Technologies: eclipse, SQL Developer, spring, struts, hibernate, XHTML, CSS2</b>
Crédit Mutuel, EID (67, Schiltigheim)	2012-04 – 2013-06 <b>Project manager and contracting authority support</b> (Scrum Master and Proxy-Product Owner) French ecotax: trucks fleets tracking and complementray services based on vehicles' positions. In collaboration with Axxès (Lyon) Management of 7 junior and experienced developers <b>Technologies: services web C#, Silverlight, SoapUI, XML, Oracle</b>
PSA (25, Sochaux)	2011-09 – 2012-05 <b>Project management support and expert developer</b> Conception and development of a web application for computers and Blackberry mobile phones to manage missions orders for PSA worldwide <b>Technologies: eclipse, SQL Developer, SVN, maven, spring, struts, hibernate, XHTML, CSS2, JIRA, SOAPUI</b>

### \_\_\_\_\_ Academic research projects (post-doctorats) \_\_\_\_\_

UTBM, SeT (90, Belfort)	<b>Insulin automatic regulation tool "Actelin"</b> Labelled project for Alsace BioValley Insulin dosage prescription for type II diabetics using mobile phones: adaptive behaviour based on artificial neural networks (see my personal projet called "Insane") In collaboration with Actimage (Strasbourg) and CEED (European Center for Diabetes Study – Strasbourg) <b>Technologies: NetBeans, Java</b>
UTBM, SeT (90, Belfort)	<b>Electric terminals positioning for electric vehicles</b> Study of Renault Twizy electric vehicles use on population travel habits changes in the region of Paris. Estimation of electric terminals' sizing and optimal placement In collaboration with Renault automotive and CASQY (region of Paris) <b>Technologies: NetBeans, Java, Dev-C++</b>
LATEMS (14, Caen)	<b>Monetics simulation tool</b> Conception and development of a simulation tool for monetics protocols (such as EMV and CB2A Autorization). This tools is used to testify compliance of devices against standard protocols within a monetics chain In collaboration with ENSICAEN and France-Telecom R&D (Caen) <b>Technologies: Java, XMLSchema, Schematron</b>
UTBM, SeT (90, Belfort)	<b>Road safety</b> Part of the ASSET european project (FP7) for better road safety <b>Technologies: Java, Flash</b>

### \_\_\_\_\_ Personal IT projects \_\_\_\_\_

Insane	Artificial neural networks ( <a href="http://insane.ncottin.net">http://insane.ncottin.net</a> )
Hide & Reveal	Steganography library and software ( <a href="http://www.hidereveal.org">http://www.hidereveal.org</a> )
PKICore	XML extension for Bouncycastle's Java library
JSPKI	PKI GUI using JSP and PKICore
PowerASN	Java ASN.1 development library and tools ( <a href="http://www.powerasn.com">http://www.powerasn.com</a> )
EZ JSON	Java JSON codec ( <a href="http://ezjson.ncottin.net">http://ezjson.ncottin.net</a> )
SDS	Java library for real-time distributed systems applications development
Paradise	CORBA broker in Java
Util	Extension of JDK for new useful functionalities (deprecated)
LaTeXWorks	LaTeX classes and packages ( <a href="http://latexworks.ncottin.net">http://latexworks.ncottin.net</a> )
CTMap	Designs for creating isometric 3D cities ( <a href="http://www.ctmap.org">http://www.ctmap.org</a> )

## **Miscellaneous**

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Languages	English (fluent), German (notions), Spanish (notions), Chinese (notions)
Sport	Fitness (Les Mills Body Training Systems), running
Artistic	Violin, piano ( <a href="http://www.nathmusic.net">http://www.nathmusic.net</a> ), photography ( <a href="http://www.ncphoto.fr">http://www.ncphoto.fr</a> )