

Nathanaël COTTIN

IT expert



42 years old, married, 3 daughters
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Project management
Analysis, conception
JEE, SOA architectures
Web development

Technical skills

Modeling	UML 1.4 (argoUML, bouml), UML 2 (Enterprise Architect)
Development	JEE (Java 8), 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
Misc.	IT security (PKI), web services (SOAP, REST), applications servers (Tomcat)

Complementary skills

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

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

Professional projects at SFEIR EST (formerly AGILIS-SFEIR)

Capgemini (90, Meroux)	<i>Since 2017-03</i>	Experienced conceptor and expert developer Take part of CORAIL supply chain management software development for PSA Technologies : eclipse, SQL Developer, spring, struts, hibernate, JIRA
BPF (25, Sochaux)	<i>2014-04 – 2017-03</i>	Experienced conceptor and expert developer Electronic signature responsive web application conception and development for "Banque PSA Finance" Technologies: eclipse, SQL Developer, Bootstrap3, jQuery, spring, struts, hibernate, HTML5, CSS3, HPQC, SonarQube, JIRA, SOAPUI Miscellaneous "proofs of concepts" conception and development Technologies : angularJS, Bootstrap3, HTML5, CSS3, iText, inkscape
ÉS (67, Mundosheim)	<i>2013-06 – 2014-04</i>	Technical advisor and expert developer Électricité de Strasbourg applications maintenance Technologies: eclipse, SQL Developer, spring, struts, hibernate, XHTML, CSS2
Crédit Mutuel, EID	<i>2012-04 – 2013-06</i>	Project manager and contracting authority support (Scrum Master and Proxy-Product Owner)

- (67, Schiltigheim) French ecotax: trucks fleets tracking and complementray services based on vehicles' positions. In collaboration with Axxès (Lyon)
Management of 7 junior and experienced developers
Technologies: services web C#, Silverlight, SOAPUI, XML, Oracle
- PSA
(25, Sochaux) 2011-09 – 2012-05 **Project management support and expert developer**
Conception and development of a web application for computers and Blackberry mobile phones to manage missions orders for PSA worldwide
Technologies: eclipse, SQL Developer, SVN, maven, spring, struts, hibernate, XHTML, CSS2, JIRA, SOAPUI

Academic research projects (post-doctorats)

- UTBM, SeT
(90, Belfort) **Insulin automatic regulation tool "Actelin"**
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)
Technologies: NetBeans, Java
- UTBM, SeT
(90, Belfort) **Electric terminals positioning for electric vehicles**
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)
Technologies: NetBeans, Java, Dev-C++
- ENSICAEN,
LATEMS
(14, Caen) **Monetics simulation tool**
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 France-Telecom R&D (Caen)
Technologies: Java, XMLSchema, Schematron
- UTBM, SeT
(90, Belfort) **Road safety**
Part of the ASSET european project (FP7) for better road safety
Technologies: Java, Flash

Personal IT projects

- Insane Artificial neural networks (<http://www.insane-network.org>)
- Hide & Reveal Steganography library and software (<http://www.hidereveal.org>)
- PKICore XML extension for Bouncycastle's Java library
- JSPKI PKI GUI using JSP and PKICore
- PowerASN Java ASN.1 development library and tools (<http://www.powerasn.com>)
- EZ JSON Java JSON codec (<http://www.ezjson.org>)
- 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 (<http://www.latexworks.org>)
- CTMap Designs for creating isometric 3D cities (<http://www.ctmap.org>)

Miscellaneous

- Member of the Board of Directors of the Mutuelle Générale de Belfort for more than 10 years
Staff representative at SFEIR EST

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