

# My resume

Contributed by Clement  
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Clement Escoffier  
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clement.escoffier@imag.fr Education

- 2005 - 2008 &ndash; Present

PhD candidate, Grenoble University, LIG (Computer Science Grenoble Lab), Grenoble University

- October 2003 - June 2005

M.S. in Computer Science (Master Research System & Software), Grenoble University

- October 1999 &ndash; June 2003

B.S. in Computer Science (License Mathematics and Computer Science), Grenoble University

Research Interests

- Dynamically Adaptable Systems

- Component-based software architecture

- Service-oriented computing

- Pervasive Computing

Work experience

- 2005 - Present: Implementing a dynamic and flexible component-oriented service platform &ndash; Ph.D. thesis work in the ADELE team, LIG Laboratory Grenoble University. Thesis work merges concepts from software architecture, component-based software engineering and service-oriented computing principles to provide a framework enabling the design and execution of dynamically adaptable applications. The resulting framework, named iPOJO, is hosted as a subproject of the Apache Felix project. iPOJO has been applied in the ANSO ITEA project in the home application context and is also used in the core of the ObjectWeb JOnAS Java EE server. This work was performed under the direction of Dr. Richard S. Hall and Philippe Lalanda.

- 2004 -2005: Autonomic Administration in Edge Computing networks &ndash; Master's work in the ADELE team, LSR Laboratory Grenoble University. Investigated and proposed how to apply Autonomic Computing principles in Edge Computing networks, where the aim is to deploy resources, such as calculation or data, closer to users. The purpose of such work is to decrease the administration cost of this system and to increase quality of service. Designed and implemented a policy-driven autonomic loop in order to administer an Edge Computing network composed of Java EE servers.

- 2003-2004: Dynamic application framework for Microsoft .NET &ndash; Internship in the ADELE team, LSR Laboratory Grenoble University. Studied how to implement a dynamic application framework for .NET. The goal was to determine if it was possible to achieve functionality similar to the Java-based OSGi service platform. Defined and implemented four alternative approaches for such the dynamic framework, each with various advantages and disadvantages as a result of the differences between .NET's and Java's mechanisms for dealing with dynamism.

## Selected Publications

- C. Escoffier, J. Bourcier & P. Lalanda. &ldquo;Toward an Application Server for Home Applications&rdquo;; 5th IEEE Consumer Communications and Networking Conference (CCNC&rsquo;08), Las Vegas, USA, 2008.

- C. Escoffier, R. S. Hall & P. Lalanda. &ldquo;iPOJO An extensible service-oriented component framework&rdquo;; IEEE International Conference on Service Computing (SCC'07), Salt Lake City, USA, 2007

- A. Bottaro, J. Bourcier, C. Escoffier & P. Lalanda. &ldquo;Context-Aware Service Composition in a Home Control Gateway&rdquo;; IEEE International Conference on Pervasive Services (ICPS'07), Istanbul, Turkey, 2007

- C. Escoffier & R. S. Hall. &ldquo;Dynamically adaptable applications with iPOJO service components&rdquo;; 6th Conference on Software Composition (SC&rsquo;07) - Braga, Portugal, 2007

- C. Escoffier, J. Bourcier & P. Lalanda. &ldquo;Implementing home-control applications on service platform&rdquo;; 4th IEEE Consumer Communications and Networking Conference (CCNC&rsquo;07), Las Vegas, USA, 2007

- L. Seinturier, C. Escoffier & D. Donsez. &ldquo;Towards a Reference Model for Implementing the Fractal Specifications for Java and the .NET Platform&rdquo;; ECOOP&rsquo;06 &ndash; Workshop Fractal, Nantes, France, 2006

- C. Escoffier, D. Donsez & R. S. Hall. &ldquo;Developing an OSGi-like Service Platform for NET&rdquo;; 3rd IEEE Consumer Communications and Networking Conference (CCNC'06) - Las Vegas, USA, 2006

- M. Desertot, C. Escoffier & D. Donsez. "Autonomic Management of J2EE Edge Servers", 3rd International Workshop on Middleware for Grid Computing (MGC'05) - Grenoble, France, 2005

Teaching

- 2008 : Concurrent Programming at Tufts University (Teaching Assistant)
- 2008 : Software Architecture & Dynamic Systems at Tufts University (Teaching Assistant)
- 2007 : Service Component Model on the top of OSGi&trade; at the eOSGi Summer School (September 2007)
- 2007 : Software Engineering (Software Engineering Project) at the Grenoble Institute of Technology (INPG - ENSIMAG)
- 2006 : Algorithm at Grenoble Institute of Technology (INPG -ENSIMAG)
- 2006 : Software Engineering (Software Engineering Project) at the Grenoble Institute of Technology (INPG - ENSIMAG)
- 2005 : Introduction to Java at the J. Fourier University (Valence)

#### Computer Skills

- Programming languages : Java, .NET langages (C#, J# ...), C
- Internet : JEE (Servlet, EJB,JNDI, JDBC ...) , PHP, Javascript, HTML
- Models and Design : UML
- Service Oriented Computing : OSGi (expert), Web Service, Jini, UPnP, DPWS
- Aspect Oriented Computing : AspectJ, AspectDNG (for .NET), ASM (bytecode manipulation)
- IDE : Eclipse, Visual Studio
- Tools : Ant, Maven, Junit ...
- Operating System : Windows, Linux, Mac OS XLanguages
- English : good proficiency in speaking, reading and writing (currently at Tufts University, Medford, MA)
- French : native speaker Misc
- Apache iPOJO Project Leader
- Apache Felix Committer