

## ADRIEN JOLY

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## Software engineer in innovative applications

Domains of application: Social Networks, Information Retrieval, Context-Awareness

### BIOGRAPHICAL SKETCH

Proud graduate of the INSA de Lyon, I achieved my PhD on Context-Aware Social Networks for the Social Communications department of Alcatel-Lucent Bell Labs, in 2010.

As a passionate programmer since the age of 7, I love to create innovative/disruptive social applications to improve interactions and communication between people. I'm an early adopter of many startups, and a fast prototyper who enjoys participating in hackathons.

Today, I'm the lead developer of Whyd, a web application to collect and share tracks from various music streaming platforms.

### STUDIES

#### PhD in Information Technology

September 2007 - September 2010

Collaboration with Alcatel-Lucent Bell Labs France & CNRS-LIRIS laboratory (INSA de Lyon)

- Title : A Context Management Framework based on Wisdom of Crowds, for Social Awareness applications
- 7 international publications
- Defense date : October 2010
- Supervisor : Prof. Pierre Maret
- Rationale: Explored new Ambient Awareness applications inspired by modern social networking sites, crowd-sourcing practices and research on Context-Awareness. Developed "Enterprise Contextual Notifier", an experimental enterprise social networking platform in which users benefit from a semi-automatic support for posting and filtering relevant social updates (e.g. tweets), in order to promote new collaboration and communication opportunities while reducing information overload.

#### Exchange student / Master's by Research

July 2005 - July 2006

Queensland University of Technology (QUT), Brisbane, Australia

- Mobile applications
- Artificial Intelligence
- Operating Systems
- Trusted systems (Trusted Solaris)
- Final research project: Designed and developed an extensible and multi-platform summary navigation system, in order to demonstrate the multimedia annotation scheme proposed by Dr. Dian Tjondronegoro.

#### MS in Computer Science / Software Engineering

September 2003 - September 2006

Institut National des Sciences Appliquées (INSA) de Lyon, France

- Professional engineering course in Computer Science and Information Technology

#### BS in Computer Science

September 2001 - July 2003

IUT Aix-en-Provence, France

## **PUBLICATIONS**

### **International journals and books**

Contextual Recommendation of Social Updates, a Tag-based Framework. A. Joly, P. Maret, J. Daigremont. Active Media Technology 2010 conference (AMT 2010) / Lecture Notes in Computer Science, Springer. (to appear)

Context-Awareness, the Missing Block of Social Networking . A. Joly, P. Maret, J. Daigremont. International Journal of Computer Science and Applications 4(2):50-65, ISSN 0972-9038. 2009.

Leveraging Semantic Technologies towards Social Ambient Intelligence. A. Joly, P. Maret, F. Bataille. Context-Aware Mobile and Ubiquitous Computing for Enhanced Usability: Adaptive Technologies and Applications 2009.

### **International conferences**

Enterprise Contextual Notifier, Contextual Tag Clouds towards more Relevant Awareness. A. Joly, P. Maret, J. Daigremont. Prototype demonstration at CSCW 2010, the ACM Conference on Computer Supported Cooperative Work, ACM ed. Savannah, GA, USA. 2010.

Workspace Awareness without Overload: Contextual Filtering of Social Interactions, A. Joly, in 1st International Workshop on Smart Offices and Other Workplaces, Intelligent Environments 2009, Barcelona, Spain. 2009.

Towards Successful Virtual Communities. J. Subercaze, C. El Morr, P. Maret, A. Joly, M. Koivisto, P. Antoniadis, M. Ihara. In International Conference on Enterprise Information Systems, Milan, Italy. pp. 677-688. Lecture Notes in Business Information Processing 24. Springer Berlin Heidelberg.

A User Profile Ontology For Situation-Aware Social Networking. J. Stan, E. Egyed-Zsigmond, A. Joly, P. Maret. In 3rd Workshop on Artificial Intelligence Techniques for Ambient Intelligence (AITAmI2008), J.C. Augusto, D. Shapiro and H. Aghajan ed. Patras, Grece.

### **Patents**

Communication system for selecting a list of contacts belonging to the social network of a user. A. Joly, J. Robinson. Europe Patent Application EP2339480, filed June 29, 2011.

Method and system for generating enhanced maps of exploration sites. A. Joly, J. Robinson. Europe Patent Application EP2296131, filed March 16, 2011.

Method and system for automatically and directly putting a driver in touch with at least one person to be transported. A. Joly, F. Bataille. France Patent KR20110042205, issued April 2011.

### **SEMINARS AND OTHER PRESENTATIONS**

- April 2010 - T.U. Dortmund DFKI Saarbrücken, Germany - "Context of Crowds, Ambient awareness framework based on contextual tags"
- January 2010 - LIRIS Laboratory, Villeurbanne, France - "Leveraging Socially-tagged Resources for Contextual Filtering of Social Updates"
- November 2009 - Alcatel-Lucent Bell Labs, Applications Domain, Nozay, France - "Tangible Contextual Tag Clouds towards Controlled and Relevant Interaction Awareness"
- July 2009 - Introduction of a Summer School on Web-based Social Networks: "Ecole d'été Web Intelligence WI09", Vêranne, France - "Réseaux Sociaux, Révolution des usages sur Internet, et nouvelles problématiques de recherche", with Pierre Maret
- March 2009 BSS group, Universiteit Twente, The Netherlands - "Awareness without Overload in Computer-Supported Collaborative Environments"
- November 2008 LaHC, Saint Etienne, France - "Context-Awareness, the Missing Block of Social Networking"

## PROFESSIONAL EXPERIENCE

### Lead software engineer in a new start-up company

October 2010 - Present

Whyd, Paris, France

- Joined as first employee of the company, a few months after its creation
- Developed the front-end in HTML+CSS+jQuery, in collaboration with our UI designer
- Developed the back-end in Javascript, on our own Node.js server
- Designed and maintained a large semantic database from Freebase, in production using MongoDB
- Actively participated to all strategic decisions with the funding team, and proposed adequate solutions
- Testing and user support

### Software engineer as consultant for external R&D projects

November 2006 - August 2007

Atos Origin Integration, Aix-en-Provence, France

- Developed a SmartTP proxy for multimedia SIM cards on Windows Mobile 5 smartphones, externalized RD project for Gemalto (presented to 3GSM 2007 conference, in Barcelona).
- Developed a secure HTTP sign-on mechanism using SIM cards, externalized RD project for Gemalto.
- Supported development and filming of a video demonstrating a mobile solution for enterprise transport solution.
- Technologies: C++, C, Windows Mobile 5, Java, Bouncy Castle

### Research internship in foreign research lab

February 2006 - June 2006

Queensland University of Technology (Brisbane, Australia)

- Title: "Adaptive and Multi-domain Hypermedia System for Mobile Users"
- Supervisor: Dr. Dian Tjondronegoro, Faculty of Information Technology
- Outcomes: 3 publications (including 1 as main author), grade 7/7
- Technologies: Java, DHTML for Pocket Internet Explorer 2003

### Freelance developer for foreign start-up company

December 2006 - February 2006

Sauce Software (Brisbane, Australia)

- Assignment: Unified and generic user management module for Joomla (ex-Mambo, CMS application)
- Technologies and open-source tools: PHP, MySQL, Joomla, cPanel, vTiger CRM

### Developer (internship followed by extended contract)

April 2005 - June 2005

Intergraph Public Safety, Aix-en-Provence, France

- Assignment: Re-engineering of strategic software for firemen
- Technologies: C++, Win32 DLL

### Developer (internship followed by extended contract)

June 2004 - August 2004

Isotools, Eguilles, France

- Assignment: Design and development of a Flash-based interactive map generation module for a content management system
- Tasks: Design of an optimized vectorial language, modular architecture, generation of flash binaries.
- Technologies: Adobe/Macromedia Flash 4, XML, C++, ActiveX/ATL, Javascript

## PROJECTS

**2013 - Coordinated AngelHack Paris hackathon** (100 developers, 8 sponsors, 7 judges from the French startup scene): Managed a team of 2 ambassadors + 4 volunteers, closed an agreement with the venue, animated the whole event on stage, in French and English.

**2012 - Developed Gig.fm** during AngelHack Paris, a web application that recommends near-by concerts based on musical taste.

**2011 - Developed Play'em** in one week-end, a minimal website that plays videos shared by Facebook friends. Featured on a Peruvian TV channel.

**2011 - Developed Hear I Am**, a Foursquare application that recommends near-by people with similar taste in music. This project was awarded three prizes at Foursquare Hackathon, and got mentioned on Techcrunch.

**2009 - "Social Bookmarks" project:** Proposal, development and user-based experiment of a transposition of social bookmarking to real-life situations.

**2007-2009 - European Project ITEA2 EASY Interactions:** Contribution to: use cases, context-awareness framework, multimodal framework, demonstrator development, and dissemination activities.

**2008 - "Meeting Room Assistant" project:** Development of an experimental social networking platform for improving communication in meeting rooms, presented at Alcatel-Lucent Innovation Days 2008.

**2005 - Developed Proximate**, a communication framework for ad-hoc Wifi networks. Designed for Windows Mobile devices. It empowers applications sharing a common network and user identification layers.

**2002 - Developed Dr. Mario for TI-92+ calculators:** A port of the famous Nintendo game, developed in C, featuring smooth gray-scale animations, while I was in high school.

## SKILLS

- Javascript on server-side (Node.JS) and client-side (jQuery, Dojo, DWR, Persevere)
- HTML5, CSS3, Flash / Actionscript
- XML/XSLT/XQuery, LAMP (PHP+MySQL), Python scripting
- JAVA/J2EE, using Apache Tomcat and Jetty
- C/C++/C#, on LINUX, MS Visual Studio
- Objective-C on XCode with iPhone SDK (MacOS)

## LANGUAGES

- French: Mother tongue
- English: Fluent, regularly read, written and spoken
- Spanish: Beginner

## ADDITIONAL ACHIEVEMENTS

- Conducted several job interviews for Whyd, Alcatel-Lucent Bell Labs France, and Atos Origin
- Supervised two Master's trainees, in 2008 and 2010. One of them has got a PhD in Machine Learning.

## PERSONAL ACTIVITIES

- Playing drums since the age of 7, first public appearance with a rock band at 13, playing blues rock in pubs at 16, and still playing with bands of various flavors of rock music
- Directed a short film for a university project
- Maintained and promoted several personal websites, blogs, and web-based social communities
- Wrote several articles for two high-school newspapers

## REFERENCES

**Pierre Maret**  
Professor  
LaHC, Université de Saint Etienne  
Saint-Etienne, France  
pierre.maret@univ-st-etienne.fr

**Johann Daigremont**  
Head of Social Communications Department  
Alcatel-Lucent Bell Labs France  
Site de Villaceaux, Nozay, France  
johann.daigremont@alcatel-lucent.com