



Romain Deveaud

Education

- 2010 **M. Sc. in Computer Science**, *University of Avignon, Avignon.*
- 2008 **B. Sc. in Computer Science**, *University of Avignon, Avignon.*
- 2007 **DUT in Computer Science**, *University of Aix-Marseille, Aix-en-Provence.*
French two-year diploma. Software engineering specialization.

Master thesis

- title Le logiciel libre à l'University d'Avignon *University of Avignon and Open Source software*
- supervisors Thierry Spriet, Philippe Gilles
- description I worked as a member of the "Free Software" team, and I developed free web applications dedicated to collaborative work (<http://gpl.univ-avignon.fr>). These applications had to be generic, easy to use and easy to install because other french universities are currently using them. I first developed an application which allows to create groups of people in order to send mails faster and easier (with groups mailing lists) and to upload, explore and manage documents (with a web file browser). The second one was an application allowing people to create meetings and sharing the meeting with other people who could vote for their preferred schedules (Doodle-like). I worked with Symfony during the whole year.

Professional experience

- 2010-ongoing **PhD student**, *University of Avignon - LIA, Avignon.*
Working for taking user contextual information into account for improving Information Retrieval systems.
- 2009-2010 **Web developer**, *University of Avignon, Avignon.*
Development and promotion of open-source web applications dedicated to collaborative work. Master thesis.
- 2009 **Software developer**, *University of Avignon - LIA, Avignon.*
My work was related to the European project LUNA (<http://www.ist-luna.eu>), an automatic speech recognition system which was specialized in hostel reservation. I improved a software which displays finite-state automata with and half-developed another which processes annotated corpus into graphic dependencies. These two softwares can directly process voice input and display the graphic result. I used C++, GTKmm and Corba for both.

Languages

- French **Native speaker**
- English **Fluent**
- Spanish **Learning**

Projects

2009 **Master's project**, *University of Avignon, Avignon*.

- Creation of a system which can detect the semantic category of a natural language question and extract the relevant keywords. We interfaced this system with an information retrieval system and an ontology in order to suggest a set of correct answers.
- Publication of a scientific article at a young researcher conference : MajecStic. This paper first reviews the state of the art in the natural language question-answer task, then describes the system we developed and its algorithms along with experiences results, and finishes with our further research perspectives.

Secondary projects.

- Public key infrastructure (with encrypted objects) working on a network. (Java)
- Indexing of a set of 111.000 XML documents (from Wikipedia) and development of an information retrieval engine implementing cosine similarity and Okapi formula. (Ruby and Ruby on Rails)
- Development of a database monitoring application (PostgreSQL database) which displays statistics and graphics. (Ruby on Rails)
- LISP syntactic parser and interpreter. (C++)
- Development of a draughts game with game theory algorithms (MinMax, Alpha-Beta). (C++)
- Instant messaging client and server, with two clients chatting over the network. (C++)

Computer skills

Programming languages	Ruby, PHP, JavaScript, C/C++, Java, Lisp...	Operating systems	Linux, Unix
Databases	MySQL, PostgreSQL, PL/SQL, NoSQL (MongoDB)	Others	Git, Subversion, Latex
Frameworks and ORMs	Symfony, Ruby on Rails, JQuery, Doctrine, Propel, ActiveRecord		

Publications

- [1] Ludovic Bonnefoy, **Romain Deveaud**, and Eric Charton. Interrogations de moteurs de recherche par des requêtes formulées en langage naturel. In *Actes de la 8e Manifestation des Jeunes Chercheurs francophones en Sciences et Technologies de l'Information et de la Communication (MajecSTIC)*, November 2009.
- [2] **Romain Deveaud**, Florian Boudin, Eric SanJuan, and Patrice Bellot. LIA at INEX 2010 Book Track. In *Comparative Evaluation of Focused Retrieval, 8th International Workshop of the Initiative for the Evaluation of XML Retrieval (INEX 2010)*, December 2010.
- [3] **Romain Deveaud**, Florian Boudin, Eric SanJuan, and Patrice Bellot. Correction de césures et enrichissement de requêtes pour la recherche de livres. In *Actes de la 8e Conférence en Recherche d'Information et Applications (CORIA)*, March 2011.
- [4] **Romain Deveaud**, Eric SanJuan, and Patrice Bellot. Ajout d'informations contextuelles issues de Wikipédia pour la recherche de passages. In *Actes de la conférence TALN*, June 2011.