

# Ludovic Fardel

## Profile

As a software Engineer (JS, front-end), I am interested in innovative technologies and looking for ways of improving humans life.

## Education

- 2007–2010 **Master of Science in Computer Science**, *Swiss Federal Institute of Technology (EPFL)*, Lausanne.
- 2004–2007 **Bachelor in Computer Science**, *EPFL*, Lausanne.

## Working Experience

- 12/2010–04/2013 **ECM consultant**, *ELCA Informatique*, Lausanne, Switzerland.  
As an integrator, I help the customers (such as insurance, schools or funding company,...) to get the best use of Alfresco integration. I take care of the configuration of the solution and additional development. I add back-end logic (*java*), develop web services (*javascript* with *Rhino* Engine) and (as the *javascript* guy of my team) customize the front-end (*YUI2*, *freemarker*, *html*, *css*) to fulfill the customers needs. Those customizations goes from branding, additional controls and validation to complete new pages. Beside this, I am developing some *Ext JS 4* webapps and liferay portlets.
- 02/2010–08/2010 **Intern - Master Thesis**, *NEC Corporation*, Nara, Japan.  
Study on Information Diffusion over Social Network. Creation of a tool to identify and extract topics in large email dataset.  
Using a large email corpus (400,000 mails), I developed algorithms and tools to find out interesting topics and localize mails about these topics. I used *perl* for the tools and R for analysis.
- 02/2009–08/2009 **Intern**, *Team PLANETE, INRIA*, Sophia Antipolis, France.  
Development of a data distribution and storage system based on IMAP with *Python*.  
The goal of this internship was to research on different ways to make user's data available from everywhere. At the end a command line interface tool was developed using *Python* and leveraging *IMAP* protocol. This tool allows a user to store a content on gmail (other email servers that allows IMAP). The content is cut, stored and versioned as emails on the server. In addition a firefox extension using this to store the passwords and bookmarks was implemented.

## Project Experience

- 12/2011–present **Side projects**, *Evenings, week-ends, DodoLab, Home*.  
In order to continuously learn and improve skills, I spend some of my free time to develop some various private projects. Currently I like to play with *YUI3*, *html5*, *css* and *node.js* (*express* and *mojito*). Among other projects, I am experimenting on a interactive post card as a *YUI* module using the canvas to combine number of photos in one card (background). You can choose between multiple background, and each background can contains one or more images. I am also setting up some webapps (*YUI App*) to help scuba divers plan their dive. Those side projects are opportunities to continuously improve the quality, maintainability and testing of my code.

- 09/2008–  
01/2009 **Alice Self-Assembly**, *Semester Project*, DISAL, EPFL.  
Modeling and Control of a Swarm of Self-Assembling Robots.  
I studied, implemented and tested some scalable aggregation algorithm for robots and investigated how to reduce its sensing and communication requirements. Using the robot simulator *Webots* and *c*, I did realistic simulation a swarm of small, limited power robots randomly wandering and pairing. I discovered that sensors alone of robots do not give enough information to evaluate their bound (of robot pair) quality, and proposed a way to improve that.
- 03/2008–  
06/2008 **GreenLife**, *Design and Media Lab*, EPFL.  
Development of a mobile carbon footprint calculator on Symbian OS with Python for Symbian, making profit of mobile phone communication abilities (GPS, bluetooth and wifi).  
This mobile app, let the user enter some data (transportation, time, location) and calculate the user transportation carbon footprint.

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## Languages

- o French: Mother Tongue
- o German: Basics
- o English: Fluent
- o Mandarin: Beginner

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## Computer Science Skills

- Programming: Javascript (YUI3, vanilla, node.js), Python, Java, Scala  
OS: GNU/Linux, Mac, MS Windows  
Others: html, css, vim, freemarker, mustache, Latex, Graphviz, SQL, Gimp, git

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## Interests

- Sports: Badminton, Scuba Diving and Volleyball  
Arts: Music (Bass guitar and other noisy stuff), Improvisation Theater, Photography  
Others: Board games, JS meetings, Tea, Beer and Wine