

# Xavier Maso

## software developer

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## Skills

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### Software development

#### Languages

Ruby ★★★★★	Javascript ★★★★★	PHP ★★★★★	Latex ★★★★★	C# ★★★★★	Python ★★★★★	Java ★★★★★
	Bash ★★★★★	C ★★★★★	ASM x86 ★★★★★	Scheme ★★★★★		

#### Libraries / frameworks

Ruby-On-Rails | ExpressJS | Angular | SailsJS | Pygame | XNA | Zend | jQuery | CodeIgniter

### Systems administration

- Ubuntu, Linux Mint and Windows8 user.
- Accustomed to use and manage Debian based systems: Raspbian, Ubuntu desktop and server, Debian.
- Nginx reverse proxy and / or load-balancer, Unicorn, Apache2 and Express (Node.js) web-servers.
- Oracle and SQLServer at school ; MySQL, PostgreSQL, Redis and MongoDB experienced and used in projects.
- Source code version control system: some SVN and much Git.
- Continuous integration: Jenkins, Docker, Capistrano, Ansible and Chef.

### Soft skills

- Team management: implement the environment which allows to develop the products and achieve goals.
- Used to Agile methods, especially Scrum. Pair programming and TDD practice.
- Speaker: animation and presentation about a product, a project or to share experiences.
- Interpersonal: listening and understanding individuals to facilitate interactions within a group.
- Marketing: around and through a product and / or company to communicate values.

## Professional experience

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### Orange Application for Business

*System administrator, Securing Workstations*

*June 2017 – August 2017*

*Bordeaux, France*

OAB is a subsidiary of Orange S.A developing and hosting services for businesses.

Integrated to an operations team of four, my mission was to secure their Linux workstations.

- System administration: Arch, Ubuntu, Debian.
- Define and apply good security practices for laptops and mobile devices.
- Development: ansible roles, audit-ssh-client-config script.
- Research: securing the boot process (anti-evil maid), Nixos, Public Key Infrastructures.
- Training and communication about the security practices: write documentation, create tutorials, run workshops.

### RedShield Security Ltd

*Software Developer*

*January 2015 – April 2016*

*Wellington, New Zealand*

Shielding-with-a-service company providing a web application firewall, vulnerability scanner and analyzer to assist IT departments ensure the security of their systems.

- Development in Ruby and Javascript.
- Configuration of production and CI servers (Jenkins).
- Debugging, automated testing.
- Research and development.

### **CER SNCF**

*IT service*

*June 2012 – Oct 2014*

*Bordeaux, France*

Distributed all over the Aquitaine and Poitou Charentes French regions, the CER (for Committee of Regionnal Establishment) provides services to SNCF's workers.

#### **First missions**

- Web development in PHP with the Zend framework.
- Production environment management: Nginx front-end with FCGI, PostgreSQL production database.
- Team work with Git and automated deployment on top of this VCS tool.
- Adaptation of our tool for another CER: needs analysis, objectives definition, integration to our development and deployment processes and tooling.

#### **Project, subject of my master thesis**

- Build a website dedicated to SNCF's employees: tasks and planning definition, resources and skills affectation to provide this new service within six month with a small team.
- The application can be found at [cheminot.cer-sncf-bx.org](http://cheminot.cer-sncf-bx.org) .
- Communication and product launching: define and reach targets, follow the adoption and usage of the product.
- Integration within the existing information system: shared databases services, web server deployment.
- Back-end in Ruby-On-Rails. Front-end with Slim, SASS and CoffeeScript.
- Quality management by software testing using Rspec and Capybara.
- Git and Capistrano for code management and automated deployment.
- Server on Ubuntu 14.04, database is PostgreSQL, Nginx and Unicorn as web stack.

#### **Others**

- Information system maintenance: Zimbra mail, Windows2008 domain, Debian web servers and support.
- IT service management: needs analysis, tasks definition, listing of skills and resources to prioritize our work.
- Help in recruitment for IT service: define required skills, job scope ; participate during interviews.

### **Cabinet P.PI/4**

*Web developer summer internship*

*Summer 2011*

*Bordeaux, France*

- Web development in PHP with the CodeIgniter framework.
- Seven students team organized with the Scrum method.
- Interviews with client for needs analysis.

## Education

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### **University of Bordeaux**

*College of Sciences and Technologies*

*2016 – today*

*Bordeaux, France*

- Master Mathematics and Applications: Cryptology and IT Security
- Refresher training in Mathematics

### **Ingésup (www.ingesup.com)**

*Information System Expert*

*2009 – 2014*

*Bordeaux, France*

Graduated in development

Five year of university studies in computer information technologies

Member of the security lab: research and learning about exploitation and penetration testing

Member of the games lab: participation in video game development contests

**MOOC, France université numérique**

*2014*

From manager to leader (website)

**Lycée La Boétie, Academy of Bordeaux**

*2005 – 2009*

French Baccalauréat in Sciences, with honors

Specialty in Mathematics

# Projects and competitions

## Personal dedicated server

2014 – Today

*server administration*

Co-owner of a dedicated server, used to manage personal services such as Gogits, Owncloud, Selfoss, Etherpad, Wallabag and websites.

- Ansible for automation, Docker containers for modularity and isolation.

## LibraryBox

December 2014 – January 2015

*web development, association*

Development of a clear and good looking web interface for LibraryBoxes.

- Web development, front-end using AngularJS, Bower for libraries management and Gulp as build system.
- Available on Github: [github.com/Labx/LibraryBox-app](https://github.com/Labx/LibraryBox-app).

## CarrotMob France

June 2014 – September 2014

*web development, positive change*

Carrotmob France is a French non profit association organizing boycotts events to reward business's commitment to making responsible changes.

- Causes: social, economic and environmental positives changes.
- About ten persons organized for remote work and Scrum method using Trello, Hangout, Skype and Github.
- Web development, front and back-end using SailsJS, Bower, Jade and Grunt tasks.

## Hackaton OpenData

2013

*web development, management, entrepreneurship*

Lead by Gironde communities (AEC, CUB and CG33), volunteers gathered to establish a web service which Gironde's citizens could use to search and find places to throw their waste.

- Self organized seven persons team.
- Application developed with AngularJS and served by Ruby.
- Proof of concept available at: <http://wheredrop.eu01.aws.af.cm/#/>.

## Imagine Cup

2011 and 2013

*games development, management*

Participation at the Imagine Cup competition organized by Microsoft. With a four students team, we developed video games with Silverlight and XNA around the themes of hunger in the world and the overproduction of waste in about four to five months. World Top 13 with Team Rocket team in 2011.

## BeMyApp event

November 2012

*mobile development, team management, entrepreneurship*

Marseille, France

First prize awarded in Gironde about a competition of mobile application development in 48 hours with the following constraint: use open data to highlight tourism of our country. Organizing a team of six people, development and finally presentation of the project in front of a jury and public.

## Hobbies

### Reading

sciences  
sociological and political essays

### Challenges

security and development:  
root-me, w3challs, codeschool

### Sports

muay thai, diver (PADI Advanced OpenWater)  
former judoka, football and handball player