

Xavier Maso

software engineer, applied mathematics student

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Skills

Software development

Languages



Libraries / frameworks

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

Systems administration

- Linux: Ubuntu, Debian, Raspbian, Arch, NixOS.
- Continuous integration: Ansible, Docker, Jenkins, Travis, Capistrano.
- Web technologies: Nginx, Unicorn, Apache2, Express (Node.js).
- Databases: MySQL, PostgreSQL, Redis and MongoDB.

Soft skills

- Team management: implement the environment which allows to develop the products and achieve goals.
- Used to Agile methodology, especially Scrum, and Lean approach. 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

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.
- Security: offensive, secure development, incident response.

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 Regional 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.
- 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

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

Five year of university studies in computer information technologies (specialty in Development).

- Member of the security lab: research and learning about exploitation and penetration testing.
- Member of the games lab: participation in video game development contests.

From manager to leader (website)

French Baccalauréat in Sciences (specialty in Mathematics), with honors.

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 .

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	Challenges	Sports
sciences sociological and political essays	security and development: root-me, w3challs, codeschool	muay thai, diving (PADI Advanced OpenWater) former judoka, football and handball player