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

Mozilla Corporation

 $May\ 2018-today$

Web security intern, Scanning modern web applications with OWASP ZAP

London, United Kingdom

The Firefox Operations Security team protects the core services and release engineering infrastructures Mozilla relies on to build, ship and run Firefox.

OWASP ZAP is a free and open-sourced security tools to help automatically find security vulnerabilities in web applications.

- · Research on modern web applications (Single Page Applications) vulnerabilities.
- · Research and development in Javascript: record and replay user interactions within any targeted web application.
- · Attached to a remote team and contributing to an open-source community.

Orange Application for Business

June 2017 - August 2017

 $System\ administrator,\ Securing\ work stations$

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

January 2015 - April 2016 Wellington, New Zealand

Software engineer

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
June 2012 – Oct 2014
Full-stack developer
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.
- \cdot 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 three person 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.
- \cdot Quality management by software testing using Rspec and Capybara.
- · Git and Capistrano for code management and automated deployment.
- · Back-end written in Ruby-On-Rails. Front-end used Slim, SASS and CoffeeScript.
- · Server on Ubuntu 14.04, database is PostgreSQL, Nginx and Unicorn as web stack.

Others

- · Information system maintenance: Zimbra mail, Windows 2008 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 intern

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.



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)

2009 - 2014

Information System Expert

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.

Lycée La Boétie, Academy of Bordeaux

2005 - 2009

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

Projects

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.

 \cdot Running on Debian systems, using Ansible for automation and Docker containers for modularity and isolation.

xaviermaso.com 2015 – Today

 $web\ development$

My personal website.

- · Front-end written in Elm, back-end powered by ExpressJS.
- · Sources on Github: github.com/Pamplemousse/xaviermaso.com .

There are more: abandonned projects, dirty hacks that I am not proud of anymore... Have a look on my website: xaviermaso.com#projects .

Hobbies

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