

Patrick MARIE

Software Engineer

Full-stack software developer loving to work on backends of large-scale web projects (over 12 years of experience)

Skills

Languages **C/C++/Qt, PHP/Symfony**, Python, **Golang**, Javascript/React, SQL, PL/pgSQL
Storage **PostgreSQL**, MySQL, Hadoop/HBase, **Elasticsearch**, **Redis**, Memcached, **Rabbitmq**
Tools **Git**, **Docker**, Vagrant, Packer, Phpunit, Behat, Selenium, **Jenkins**, Redmine, Atlassian tools
Platforms **GNU/Linux (Debian, Centos...)**, FreeBSD, AWS (EC2, S3, Cloudfront...),

Experience

- Mar 2015 **Software Engineer**, *Qualys*, Paris.
Now In the Malware Protection Services team, design & development of :
— MPF - A malware storage & analysis platform to provide tools for Malware Analysis team & UI teams
Composed of an UI and micro-services ; Volume : 160M samples/year, 1M analyzes/day ;
— DIP - A docker based platform designed to allow dev, QA & OPS teams to run company's softwares ;
— WAF - Maintenance on Web Application Firewall appliance software & team build tools.
Environment : **PHP/Symfony**, PostgreSQL, **Elasticsearch**, React, **Docker**, Behat, Selenium.
- Oct 2012 **Software Engineer**, *Allmyapps*, Paris.
Feb 2015 In a 10 people startup, reporting to the co-founder/product manager :
— Leading technical team (3 developers - 2 on front web, 1 on desktop client, 1 tester) ;
— Writing new code & bug-fixing stuff on API, admin & backend systems ;
— Responsible for development and production infrastructures : Architecture, migration to AWS ;
— Platform optimization (+300 req/sec ; 2.5M monthly active users) ;
Environment : **PHP**, Python, **Golang**, **PostgreSQL**, Redis, **Rabbitmq**, **Elasticsearch**, **AWS**, Ubuntu.
- Mar 2009 **Software Engineer**, *Scan & Target*, Paris.
Oct 2012 Leading company's software projects, in a 7 people team :
— Development on all company software (core, moderation tools, client libraries) ;
— Design & development of a complete social network's UGC curation ;
— Optimization of existing company's SaaS software (over 100x) ;
— Development of C, C++, C#, Java, Python, Ruby client libraries ;
Environment : PHP/Symfony, Java, C++, Python, PostgreSQL, Hadoop, HBase, Thrift, Redis, Centos.
- Jan 2008 **Software Engineer**, *CS-SI*, Toulouse.
Mar 2009 Software engineer for the mission/orbital station-keeping center of SPOT4/SPOT5/Helios satellites :
— Maintenance on control center softwares (200k ADA/HOOD loc, 1M C++ loc) ;
— In charge of development environment for the maintenance team.
Environment : Ada, C++, Visual C++ ; HP/UX, Linux, Windows 2000 ; Subversion ; ISO9001-2000.

- Oct 2004 **Software Engineer**, *EADS Astrium*, Toulouse.
- Jan 2008 Software engineer in the Model, Tools & System team :
— Specifications, development and validation of analysis and computation tools ;
— Validation of a complete 3D modelisation and computation software suite : <http://systema.aero/> ;
— Specifications and development of backoffice tool to manage software licences.
Environment : C++, QT, PHP ; Apache, Mysql, Solaris/Linux/Windows, Clearcase, ISO9001-2000.
- Mar 2002 **Software Developer**, *Plug-It/Neuronnexion*, Amiens.
- Jun 2003 To validate my year at university, and followed by fixed term contracts
— Intranet (contacts, planning, mails) & Internet (e-commerce) website development ;
— Company's server set-up (web, mail, DNS...).
Environment : PHP, MySQL, Apache.

Personal Projects

- Packer/Docker templates - VMs & Packer.io / Docker containers templates ;
- Fatchbinch - Moderation console prototype for centralized & automatized moderation with Facebook, Forums, Twitter support... (Symfony2) ;
- yapl4twitter - Symfony 1.4 Twitter plug-in (OAuth, API) ;
- mnkPasswordKeeper - Multi-platform passwords manager (C++/Qt).

Education

- 2005 **Master**, *Université Paul Sabatier*, Toulouse.
Computer systems engineering
- 2001 **DUT**, *Université Picardie Jules Verne*, Amiens.
Computer & network engineering

Hobbies and Interests

- Big interest in new technologies especially in Open source community & startups ;
- Self learning on Coursera & Udacity (Android, machine learning, Crypto, Web dev / GAE...);
- Asian cultures ; Photography ; Flight simulators ; Puzzles ; Lego.