

Patrick MARIE

Senior Site Reliability Engineer

*Site Reliability Engineer with 20 years of experience.
Strong background on large-scale projects
Always keen to discover, experiment & apply new techs*

Skills

Langages **Golang, Rust**, Python, C/C++, PHP/Symfony, Java, C#, JS, SQL
Storage **PostgreSQL**, MySQL, Cassandra/ScyllaDB, **Elasticsearch**, Redis, Kafka, Rabbitmq
Plateformes **GNU/Linux (Centos, Debian...)**, Docker, AWS, Azure, GCE, Alibaba, Kubernetes...

Experience

Mar 2020 **Senior Site Reliability Engineer**, *Criteo*, Paris.

Now In the Observability team, handling metrics, logs & tracing, mainly maintenance of following :

- Improvement of metrics clusters (biggraphite & Prometheus with VictoriaMetrics)
2.5M metrics/sec, 250 M unique metrics, 300 servers for graphite stack, 1000 prometheus over 8 DCs
 - Redesigned logs pipeline ingestion, adding filtering & routing features (1.5M logs/sec)
 - Cleaned up tech debt upgrading & migrating obsolete components in several SRE teams
- Environnement : **Prometheus**, VictoriaMetrics, ElasticSearch, Cassandra, **Python**, **Golang**, Chef...

Mar 2015 **Senior Software Engineer**, *Qualys*, Paris.

Mar 2020 In the Malware Protection Services team, design & development of :

- WAF - Maintenance on Web Application Firewall appliance software & team build tools.
Development on Haproxy, analysis engine, agent ; Creation of AWS, GCE, Azure cloud images ;
 - 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 ;
- Environnement : **C/C++**, Python, **PHP/Symfony**, PostgreSQL, **Docker**, AWS, Azure, GCE, Kubernetes

Oct 2012 **Senior 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.

Education

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

Hobbies and Interests

- Big interest in new technologies especially in Open source community & startups;
— Self learning on Coursera & Udacity (Ex : Android, machine learning, Crypto, Web dev...);