

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

### Skills

Languages **Golang, Rust**, Python, C/C++, Java, PHP/Symfony, Javascript, SQL  
Envs **GNU/Linux (Centos, Debian...)**, **Kubernetes**, AWS, Azure, GCE, Alibaba  
Storage **PostgreSQL**, MySQL, Cassandra/ScyllaDB, Elasticsearch, Kafka, Rabbitmq, Redis  
Tools **Git, Terraform**, Ansible, Chef, **Github Actions**, Jenkins, Packer, Docker

### Experience

- Apr 2022 **Staff Site Reliability Engineer**, *Aviatrix*, Full-remote  
Aug 2023 In the newly created SRE team, deployment and maintenance of :  
— Designed & deployed observability stacks (kube-prometheus-stack, fluentd & opensearch)  
— Bootstrapped authn/authz stack with okta/dex-idp/oauth2-proxy & IAM on EKS  
— Wrote several infrastructure components (eg : Kubernetes operator, S3 synchronization service)  
— Industrialized multiple existing or new company/opensource services to fit in Kubernetes  
Env : **AWS** (EKS, EC2, IAM, S3, RDS...), **Kubernetes**, **Golang**, Terraform, Github Actions, Prometheus
- Mar 2020 **Senior Site Reliability Engineer**, *Criteo*, Full-remote  
Mar 2022 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)  
— Worked on SDKs development (Java/Scala, C#, Python) and multiple POCs for customers demands  
— Cleaned up tech debt upgrading & migrating obsolete components in several SRE teams  
Env : **Prometheus**, VictoriaMetrics, **Grafana**, 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  
Env : **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, acting as CTO :  
— 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) ;  
Env : **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 SDKs and multiple POCs  
Env : 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  
Env : Ada, C/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 :  
— Design, development and validation of analysis and computation tools  
— Validation of a complete 3D modelisation and computation software suite (Systema)  
— Specifications and development of backoffice tool to manage software licences  
Env : C/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 installation & maintenance (web, mail, DNS...)  
Env : PHP, MySQL, Apache, Redhat Linux

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## Education

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

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## Hobbies and Interests

- Security challenges/CTF hobbyist; Top 100 on root-me.org; Finished 1st at DG'h4ck 2023  
— Big interest in new technologies especially in Open source community & startups  
— Self learning on Coursera & Udacity (Ex : Android, machine learning, Crypto, Web dev...)