

Nicolas STERCHELE

Decade experience as Software & Site Reliability Engineer

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Skills

Programming Go, C, C#, Python
OS GNU/Linux, FreeBSD
Systems RabbitMQ, redis, elasticsearch, nginx & co
Tracing eBPF, bpftrace, strace
Network TCP/IP, DNS, HTTP
Process Open source contribution, code review, debugging/testing
Miscellaneous Git, Makefile, Vim
Personal skills Good communication, troubleshooter mindset, passionate, team work, self-motivated

Experience

2021–Present **Senior SRE II**, BACK MARKET, Full remote.

Back Market is an online marketplace that sells revamped smartphones, laptops, gaming consoles, and more.

- Root cause analysis of complex problems from any layer of the stack through various system measurements and profiling techniques
 - Provide expertise via internal collaborations to empower engineers to troubleshooting methodologies and debugging practices
 - Develop tools to help debugging issues in production environment, thanks to the eBPF eco-system
- Contribute to open-source projects for fixes & features (kops, cilium)
- Develop **racoon** an open-source project in Go, to provide ephemerality in a Kubernetes environment
- Promote & implement SLO across the company to act as a safeguard against quality & availability loss
- Conception, promotion and implementation of a chaos engineering doctrine across the engineering department
- Articles contributed to **Back Market's blog**

2019–2021 **Site Reliability Engineer**, UKG, Full remote.

The UKG platform improves HR effectiveness, streamline the payroll process, and help make work a better, more connected experience for everyone.

- To safeguard the reliability of our stack, I led the writing of the SLO manifesto & trained SRE team members to launch and advocate the initiative across the company
- Provided guidance to engineers to identify, troubleshoot, and resolve high impact issues to keep services conformed to our quality standards
- Actively contributed to build fault tolerant, scalable and low latency services on virtual and bare-metal servers via various techniques, such as:
 - evangelizing circuit-breaker implementation
 - providing performance improvement plans backed by flamegraph usage
- Did major contributions to Elasticsearch stack, to reduce its footprint and also improve its performance

2017–2019 **Cloud System Engineer**, ANTVOICE, Paris.

Led the build of a Real-Time bidding platform infrastructure.

2015–2017 **Software Engineer**, KANTAR MEDIA, Paris.

Conception and development of a social media intelligence platform.

2013–2015 **Software Engineer**, TECHNIP, Paris.

Development of a website that shows how to distribute containers on the deck of an oil rig or a boat. Conception and development of an OLE interface between a thermal calculation software and a web module.

Open Source & Community

Contributions  **sterchelen** ■ Contributions made to: **kops** (multiple fixes and features), **bcc** (new libbpf tool), **cilium** (fix), **chaos-mesh** (feature)

Blogging Technical articles: [troubleshooting scenario](#), [open-sourcing raccoon](#)

Languages

French **Mothertongue.**

English **Fluent**, *TOEIC 840*.

Education

2010–2013 **Master's degree**, *Conservatoire National des Arts et Métiers*, Paris, France.

Computer Science

2008–2010 **BTEC Higher National Diploma (french BTS)**, *Lycée Paul Langevin*, Beauvais, France.

Major in robotic

2008 **High School Diploma (french baccalauréat)**, *Lycée Paul Langevin*, Beauvais, France.

Interests

- Climbing

- Tinkering

- Running

- Gardening