# Guillaume Dedrie

SRE / DevOps



#### Introduction

I am a qualified Site Reliability Engineer with over 10 years experience involving agile software development practices and DevOps philosophy in a field where security is the top one priority.

Pragmatic with a strong team spirit, I also like to think out of the box and love to learn new things.

	Education	
2018	<ul> <li>Certification, Offensive Security, ESIEA, 6 months</li> <li>Opens-source Intelligence (OSINT), methodolgy for collecting, analyzing and making decisio about data publicly accessible.</li> </ul>	
	<ul> <li>Network Reconnaissance.</li> <li>Vulnerability research and exploitation (Priviled)</li> </ul>	ge escalation, injections,).
2017	<ul> <li>Certification, Data network Principles, IMT Atlantique</li> <li>OSI model.</li> <li>Network Protocols (IP, TCP,) and routing.</li> </ul>	
2010	Certificate: https://www.fun-mooc.fr/cert/GVdO89/	
2013	<ul> <li>Complex systems architecture.</li> <li>Code Analysis for Safety and Security.</li> <li>Telecommunications.</li> <li>Object relational database management system.</li> </ul> Higher National Diploma in Computer Science. University Institute of Technology. Orléans	
2008		
	Skills	
	Technical Knowledge	
Programming:	Python, Javascript.	Scripting: Bash, PowerShell.

Databases: PostgreSQL, MySQL, Redis, SQLAlchemy.

Back-End: FastAPI, Redis (Cache), RabbitMQ (Celery), OpenTelemetry.

Observability: Grafana (Dashboard, Agent, Loki), Prometheus, Sentry.

Infrastructure as Ansible, Packer, Terraform, Vagrant. Scalability: Consul, HAProxy, Traefik.

Code:

 $SysAdmin: \ Linux/Windows/macOS, \ QEMU/KVM, \ \{ip,nf\} tables.$ 

Misc: Arch Linux, Git, Vim, LATEX.

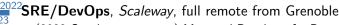
Work Methodologies

Pomodoro technique, Test Driven Development, Scrum, PDCA, A3 Thinking

Foreign Languages

French: Native language English: Business level (TOEIC: 955/990)

### Professional Experiences



- (2022 October current) Managed Database for PostgreSQL and MySQL and Managed Database for Redis™
  - Development on functionalities that allow customer to easily administrate Database instances without having to deal with:
    - · High-availability and Replications.
    - · Monitoring.
    - · Backups (on-demand or automatically).

2014

#### SRE/DevOps, Quarkslab, full remote from Grenoble since 2015

- (2020 2022 October) QShield, a source code obfuscation software based on LLVM:
  - Administrating, monitoring {Linux (Debian), Android, Apple, Windows} Physical and Virtual Servers/Devices used by developers to tests and release the software.
  - Setup of GitLab CI/CD workflows and scripts for Automated and Secure deployment to customers.
  - Development of an in-house software license monitoring and deployment system to ease the creation, renew and expiration follow-up by developers and sales people.
- 0 (2014 2019 december) QFlow, an Automated File Analysis Platform:
  - Improving Deployment and Scalability of the plateform in order to be able to handle a large amount of files to analyze. This include Functional testing, Database administration, design and bench, Message queuing implementation and using Infrastructure as Code tools.
  - Conception and development ({Front,Back}-end) of an 'USB Kiosk' to perform USB Key analysis in order to detect malwares.
  - Customers trainings on self-hosted deployments and administration of the platform.

2018 2022

2013

2014

#### External lecturer, Ensimag, Grenoble

Lecturer and practical exercises supervisor for Computer Science students.

Offensive Security, Networks and Cryptography.

Web Developer / DevOps / Agile, Theodo, Paris

- Frontend and Backend engineer for Web applications using Scrum methodology and TDD.
- IT Administration, following DevOps philosophy.

2010

#### Software Engineer, STMicroelectronics, Crolles

- O Development of CAD Tools for analog and digital components (IO, memory, IP).
- Regression testing for production.

2009 2010

#### Web Developer (Internship), Secouristes du Loiret, Saint-Jean-de-la-Ruelle

- Analysis and deployment of an extranet application for the volunteers (63000 in France).
- Support, maintenance and development of addons.

## Regular Talks

March 2019 **Presentation: "DevOps et projet IRMA" (French)**, Ensimag Tech Meetup, Grenoble https://drive.google.com/file/d/1DMVJebbHYiCOluBxJZXJyd1NFbiG2Ulx/view?usp=sharing

February 2017 **Presentation: "A trip through the security of DevOps tools"**, *DevSecCon Asia*, Singapore https://www.devseccon.com/asia-2017/session/a-trip-through-the-security-of-devops-tools/

November 2015 **Workshop: "Improve IRMA"**, *GreHack*, Grenoble https://grehack.fr/2015/workshops

June 2015 **Presentation: "IRMA: Incident Response and Malware Analysis"**, *SSTIC*, Rennes https://www.sstic.org/2015/presentation/irma\_incident\_response\_and\_malware\_analysis/

May 2015 Lab: "Adding a probe to IRMA", HITBSecConf, Amsterdam https://conference.hitb.org/hitbsecconf2015ams/sessions/lab-irma-framework/

#### Leisure activities

Mountain Sports (Hiking++, Trail, Skiing, Alpinism), Muay Thaï.

Since 2009 Volunteer, French Red Cross

First-Aid Teacher. I also assist competitors or spectators during sports competitions, concerts, or in case of disasters.

Last update: January 2, 2023