

# Guillaume Dedrie

## Cyber Security Engineer

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Age: 36



## Introduction

I am a qualified Cyber Security 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.

## Professional Experiences

2023

### OWN.security, SOC/CERT, full remote

- (2023 June — current) SRE/Developper - CERT team:
  - Development of an External Attack Surface Management (EASM) stack to handle customers incidents.
  - Handling CERT infrastructure:
    - Installation, provisioning and monitoring of in-house and cloud servers;
    - Assessments and deployments of tools and applications;
    - Handling OpSec Analysis virtual desktop on-demand.
  - Handling Analysts day-to-day needs (internal developments or tools/services PoC).
  - Onboard and train new engineers for best practices developments (CI/CD, Containers, ...).

2022

2023

### Scaleway, Cloud provider, full remote

- (2022 October — current) DevOps — Managed Database (PostgreSQL, MySQL and 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

2022

### Quarkslab, Cybersecurity Lab, full remote since 2015

- (2020 — 2022 October) SRE/DevOps — 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.
- (2014 — 2019 december) DevOps — QFlow (formely IRMA), 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

2018

### Certification: Offensive Security, ESIEA, 6 months

- Opens-source Intelligence (OSINT), methodology for collecting, analyzing and making decisions about data publicly accessible.
- Network Reconnaissance.
- Vulnerability research and exploitation (Privilege escalation, injections, ...).

2018

2022

### Grenoble INP — Ensimag, Engineering School, Grenoble

Lecturer and practical exercises supervisor for Computer Science students.  
Offensive Security, Networks and Cryptography.

2017

## **Certification: Data network Principles**, IMT Atlantique

- OSI model.
  - Network Protocols (IP, TCP, ...) and routing.
- Certificate: <https://www.fun-mooc.fr/cert/GVdO89/>

2013

2014

## **Theodo**, *Service Company*, Paris

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

2010

2013

## **STMicroelectronics**, *Semiconductor manufacturer*, Crolles

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

## Skills

### Technical Knowledge

Programming: Python, Javascript. Scripting: Bash, PowerShell.  
IaC: Ansible, Packer, Terraform, Vagrant, Vault. Scalability: Consul, HAProxy, Traefik.  
Public Cloud: Scaleway, AWS. Orchestration: Swarm, K8s.  
Back-End: FastAPI, Redis (Cache), RabbitMQ (Celery), SQLAlchemy.  
Databases: PostgreSQL, Elasticsearch, MySQL, Redis.  
Observability: Grafana (Dashboard, Agent, Loki), Prometheus, Sentry, Kibana.  
SysAdmin: Linux/Windows/macOS, QEMU/KVM, {ip,nf}tables, configuration hardening.  
Network tools: Wireshark/tcpdump, Masscan/Nmap, Scapy, Netcat/Socat.  
Offensive tools: Metasploit, Burp Suite, SQLMap, Hydra/Patator, Hashcat.  
Misc: Arch Linux, Git, Vim, L<sup>A</sup>T<sub>E</sub>X.

### Work Methodologies

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

### Foreign Languages

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

## Education

2010

2013

## **Engineer's Degree**, *Information Systems Engineering*, Grenoble INP — Ensimag, Grenoble

- Complex systems architecture.
- Code Analysis for Safety and Security.
- Telecommunications.
- Object relational database management system.

2008

2010

## **Higher National Diploma in Computer Science**, University Institute of Technology, Orléans

- Software Architecture and development.
- Database.

## Regular Talks

March 2019 **Presentation: “DevOps et projet IRMA” (French)**, *Ensimag Tech Meetup*, Grenoble  
<https://drive.google.com/file/d/1DMVJebbHYiCOluBxJZXJyd1NFbG2Ulx/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/](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/>

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## Leisure activities

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

Since 2009 **Volunteer**, *French Red Cross*

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