

Guillaume Dedrie

SRE / DevOps

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Nationality: French
Age: 34



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

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, ...).

2017

Certification, Data network Principles, IMT Atlantique

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

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.

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 Code: Ansible, Packer, Terraform, Vagrant.

Scalability: Consul, HAProxy, Traefik.

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

Misc: Arch Linux, Git, Vim, L^AT_EX.

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
2023

SRE/DevOps, Scaleway, full remote from Grenoble

- (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

2022

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.
- (2014 — 2019 december) QFlow, an Automated File Analysis Platform:
 - Improving Deployment and Scalability of the platform 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

External lecturer, Ensimag, Grenoble

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

2013

2014

Web Developer / DevOps / Agile, Theodo, Paris

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

2010

2013

Software Engineer, STMicroelectronics, Crolles

- 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 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.

Last update: January 2, 2023