Guillaume Dedrie

Cyber Security Software Engineer

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Nationality: French
Age: 33

Introduction

I am a qualified Software Engineer with over 10 years experience involving agile software development practices and system administration, 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), methodolgy for collecting, analyzing and making decisions about data publicly accessible.
- Network Reconnaissance.
- Vulnerability research and exploitation (Priviledge 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 Institute of Technology - 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.
Web:	FastAPI, Vue.js, Traefik.	Database:	PostgreSQL, MySQL.
SysAdmin:	Linux/Windows/macOS, QEMU/KVM, {ip,nf}tables, Grafana, Prometheus.		
DevOps tools:	Ansible, Docker, Vagrant/Packer.		
Network tools:	Wireshark/tcpdump, Masscan/Nmap, Scapy, Netcat/Socat.		
Offensive tools:	Metasploit, Burp Suite, SQLMap, Hydra/Patator, Hashcat.		
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

2018

External lecturer, *Ensimag*, Grenoble

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

2014

R&D Engineer, *Quarkslab*, full remote from Grenoble since 2015

- (2020-current) SRE on QuarksAppShield, a source code obfuscation software based on LLVM:
  - Administrating {Linux (Debian), Android, Apple, Windows} Physical and Virtual Servers/Devices.
  - Rewritting GitLab CI/CD workflow and scripts for Automated and Secure deployment to customers.
  - Development of internal tools (Python) and Web Applications (FastAPI+Vue.js) for developers and salespeople.
- (2014-2019) Core-Developer on QuarksFlow, an Automated File Analysis Platform:
  - Improving deployment of the Open-Source part using Ansible/Vagrant (DevOps Philosophy) (https://github.com/quarkslab/irma).
  - Conception and development ({Front,Back}-end) of an "USB Kiosk" to perform USB Key analysis in order to detect malwares.
  - In charge of customers deployments and trainings.

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/1DMVJebbHYiCOIuBxJZXJyd1NFbiG2UIx/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)

Since 2009 **Volunteer**, *French Red Cross*
First-Aid Teacher. I also assist competitors or spectators during sports competitions, concerts, or in case of disasters.

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