









Aurélien DUBOC

Master student | Cybersecurity enthusiast

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I am currently pursuing my master's degree in cybersecurity at Telecom SudParis.

EDUCATION

2017-2020	Master in Engineering Major in systems and network security TELECOM SudParis university
2014-2017	Three-year undergraduate intensive course in mathematics and/or physics to prepare for nationwide competitive examination Michelet high school
2014	High School Diploma with honours, major in science NDS high school

SKILLS

Passcracking :	Hashcat, Maskprocessor, John
Web security :	SQL injection, Xpath injection, LDAP injection, RCE, RFI / BFI, XSS, CSRF, obfuscation and escape... dirb gobuster beef wffuzz burp suite sqlmap
System security :	Architecture and security mechanisms of Windows and Linux systems, memory protection (segmentation, pagination), binaries analysis (reverse engineering), application vulnerabilities (stack / heap buffer overflows, strings format, ROP ...) and protections (ASLR, bit NX / DEP, PIE, RelRO, SSP...) gdb-peda radare2 pwn2tools angr
Network :	Cisco IOS network filtering (ACL, Reflexive-ACL, CBAC), SSL VPN tunnels (OpenVPN), IPSEC (Stormshield), SSH (sshuttle), load-balancer / reverse-proxy, NGFW, IDS and IPS (Suricata, Snort), SIEM (prelude, dsim) nmap dig Scapy ettercap tcpdump Wireshark netcat hping3
Computing :	Python, Bash, Java, Go, PHP, ASM x86, C, PowerShell, Javascript
OS :	ArchLinux, Debian, Kali, Windows, AWS Linux (EC2)

PROFESSIONAL EXPERIENCE

October 2020 May 2020	Securiy Engineer Intern, OUTSCALE, United States / France <ul style="list-style-type: none">> Security Operations Center department> DevOps and SecOps tasks on cloud systems
June 2019 September 2019	Securiy Engineer Intern, NEXTER, France <ul style="list-style-type: none">> Working on CAN protocol, Vector CANoe software, Vector CAN Disturbance Interface VH6501.> Build a software (Python) driving CANoe through a COM API, making scenarios of cyber attacks, analyzing vulnerabilities of CAN bus architecture.> Help on setting up a network architecture inside my lab (dns/dhcp/revproxy/docker services) Python cantools win32com Git Windows system
June 2018 June 2019	Full stack developer, TELECOM SUDPARIS, France <ul style="list-style-type: none">> Developping web applications for Telecom SudParis administration.> A three-month internship followed by a one-year part-time contract during the school year. Python-Flask PHP Javascript Git PostgreSQL CentOS Linux system

VOLUNTEER EXPERIENCES

September 2017 Now	President/Member of HackademINT, TELECOM SUDPARIS CYBERSECURITY CLUB, France <ul style="list-style-type: none">> Presidential function for 1 year from April 2018 to April 2019> Planning weekly cybersecurity formation for HackademINT members.> Designed the club network infrastructure.> Participation in CTFs everywhere in France and team security challenges online. CTFd RootMe HackTheBox OverTheWire
April 2018 April 2019	Web Manager at MiNET, TELECOM SUDPARIS INTERNET SERVICE PROVIDER ASSOCIATION, France <ul style="list-style-type: none">> Development of the management platform of the 1,000 members of the TELECOM SudParis campus> Extended IT management : Servers, switches, routers, NAS...> Deployment of WiFi and Ethernet enterprise network Cisco Angular6

PROJECTS

POC ON ANTI-SPAM PROTECTIONS OF ONLINE PAYMENT SYSTEMS

2019-2020

Scaffolding of a distributed attack POC via a server cluster targeting online ticket counters bypassing the anti-spam protections of online payment systems for the purchase of bulk tickets.

Java Python Docker

ROOTME API USING DISTRIBUTED COMPUTING WITH REDIS

2019

This async API is parsing with lxml the website RootMe which deals with cybersecurity challenges in order to help developers to use the data from this website. The data is stored by workers instance in redis streams.

Python-Tornado Docker Redis

CISCO VLAN MANAGER

2019

This API and web application enable managing VLANs on cisco devices.

Python-Netmiko Python-Flask Docker Redis

EXPANDING A PROXMOX CLUSTER AUTOMATICALLY

2018-2019

Deploy virtual machines on specific subnet on which you can get ssh with LDAP credentials.

Proxmox Ansible Qemu Bash

DEVELOPMENT OF AN AUTOMATED IT SECURITY AUDIT TOOL IN A VIRTUALIZED ENVIRONMENT.

2018-2019

Automated audit of an active infrastructure with various network and personal services running with Proxmox hypervisor. Development of a logstash plugin for lynis

Proxmox Ansible Lynis Elasticsearch Logstash Kibana LXC Qemu KVM

POC ON CVE-2018-4407-IOS

2018

The vulnerability is a heap buffer overflow in the networking code in the XNU operating system kernel. XNU is used by both iOS and macOS, which is why iPhones, iPads, and Macbooks are all affected

Python Scapy

SELF DRIVING CAR MADE IN ASSEMBLY

2018

The car follows a black line on a circuit. The master card manages the direction and interacts with a slave card which manages the display of the data

assembly-language-programming

RECOGNITION OF HANDWRITTEN SIGNATURES ADXL335

2016-2017

Authentication of handwritten signatures without taking out the big mathematical tools.

Arduino Python PostgreSQL

AWARDS

1ST PLACE AT HACKSECUREIMS 2020

07/02/2020

Event and Capture The Flag competition organized for students with about 100 people with 600€ of cashprize for the winners

CTF Team T35H Reims

2ND PLACE ON SITE AT INSHACK2019

02/05/2019

Capture The Flag competition organized by the INSA Lyon university with about 70 people on site.

CTF InsHack Team HackademINT Lyon

1ST PLACE AT MARS@HACK

08/03/2019

Event and Capture The Flag competition organized by the French Air Force with 1000€ of cashprize for the winners with a coin of the Cyber Defense Command

CTF French Air Force Team HackademINT Mont de Marsan

1ST PLACE AT HACKSECUREIMS 2019

01/02/2019

Event and Capture The Flag competition organized for students with about 100 people with 600€ of cashprize for the winners

CTF Team T35H Reims

1ST PLACE AT WAVESTONE CYBERSECURITY NIGHT OUT

19/12/2018

Capture The Flag cybersecurity competition organized by WaveStone

CTF Team HackademINT Paris