Aurélien DUBOC
Master student | Cybersecurity enthusiast | Full stack developer

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I am currently pursuing my master's degree in cybersecurity at Telecom SudParis and I am looking for a **five months internship** beginning in April/May 2020 with the eventual possibility of employment.

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 wfuzz 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 pwntools 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, dsiem) 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

June 2019 September 2019	**Securiy Engineer Intern, NEXTER, France** > 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 developper, TELECOM SUDPARIS, France** > 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** > 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** > 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 developpers 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

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`