

Aurélien DUBOC

Master student | Cybersecurity enthusiast

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📍 62 rue Brancion, 75015 Paris, France 📅 Born in 1996 🇫🇷 Nationality : French
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🎓 EDUCATION

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|-----------|--|
| 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, 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

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| June 2020
Now | SOC Security Engineer Intern, OUTSCALE, France <ul style="list-style-type: none">> Security Operations Center department> Carry the mapping and inventorying project (aimed at security needs). This project covers the needs of vulnerability checks, the needs of license checks, and facilitated security monitoring.> Manage automation of vulnerabilities treatment for SOC team building a custom Natural Processing Language model. <code>spacy</code> <code>elasticsearch</code> <code>openvas</code> <code>ocs</code> <code>jira</code> <code>cocalc</code> <code>Python</code> <code>Perl</code> |
| June 2019
September 2019 | Security 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) <code>Python</code> <code>cantools</code> <code>win32com</code> <code>Git</code> <code>Windows system</code> |
| June 2018
June 2019 | Full stack developer, TELECOM SUDPARIS, France <ul style="list-style-type: none">> Developing web applications for Telecom SudParis administration.> A three-month internship followed by a one-year part-time contract during the school year. <code>Python-Flask</code> <code>PHP</code> <code>Javascript</code> <code>Git</code> <code>PostgreSQL</code> <code>CentOS Linux system</code> |

📁 VOLUNTEER EXPERIENCES

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| 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. <code>CTFd</code> <code>RootMe</code> <code>HackTheBox</code> <code>OverTheWire</code> |
| 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 <code>Cisco</code> <code>Angular6</code> |

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](#)
- 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](#)