

# Aurélien DUBOC

## Master student | Cybersecurity enthusiast | Full stack developer

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62 rue Brancion, 75015 Paris, France **i** Born in 1996 **i** Nationality : French

I am a cybersecurity student at Telecom SudParis (currently pursuing my master's degree). I am a cybersecurity enthusiast and I am mainly self-taught. I practice over cybersecurity competitions (CaptureTheFlag), virtual machines exploitation (HackTheBox, RootMe)... I am a very resourceful person who knows how to adapt to the problems I encounter. I am currently looking for a **five months internship** beginning in April/May 2020 which could be followed by a first employment contract. I would like to keep developing my skills in cybersecurity engineering and/or penetration testing. Some of my other projects are available on my Github account.

## 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

<b>Favorite languages</b>	Python, Bash (Secondary languages : ASM, PHP, Javascript, Java, Go, C)
<b>Passcracking</b>	Hashcat, Maskprocessor, John
<b>Reverse Engineering</b>	radare2, gdb, ida
<b>Pentesting tools</b>	Burp, Gobuster, Metasploit, Sqlmap, Beef, Wfuzz...
<b>Cloud/Operating Systems</b>	ArchLinux, Debian, Kali, Windows, AWS Linux (EC2)

## PROFESSIONAL EXPERIENCE

June 2019 September 2019	<b>Securiy Engineer Intern, NEXTER, France</b> <ul style="list-style-type: none"><li>&gt; Working on CAN protocol, Vector CANoe software, Vector CAN Disturbance Interface VH6501.</li><li>&gt; Build a software (Python) driving CANoe through a COM API, making scenarios of cyber attacks, analyzing vulnerabilities of CAN bus architecture.</li><li>&gt; Help on setting up a network architecture inside my lab (dns/dhcp/revproxy/docker services)</li><li>&gt; Optional project, build a software uploading folders/files tree inside an intern browser storage application that does not handle this feature. (Python - Selenium)</li></ul> <div>Python cantools win32com Git Windows system</div>
June 2018 June 2019	<b>Full stack developer, TELECOM SUDPARIS, France</b> <ul style="list-style-type: none"><li>&gt; Developping web applications for Telecom SudParis administration.</li><li>&gt; A three-month internship followed by a one-year part-time contract during the school year.</li></ul> <div>Python-Flask PHP Javascript Git PostgreSQL CentOS Linux system</div>

## VOLUNTEER EXPERIENCES

September 2017 Now	<b>President/Member of HackademINT, TELECOM SUDPARIS CYBERSECURITY CLUB, France</b> <ul style="list-style-type: none"><li>&gt; Presidential function for 1 year from April 2018 to April 2019</li><li>&gt; Planning weekly cybersecurity formation for HackademINT members.</li><li>&gt; Designed the club network infrastructure.</li><li>&gt; <a href="https://hackademint.org">hackademint.org</a> + <a href="https://t35h.re">t35h.re</a></li><li>&gt; Organization of a CTF for beginners</li><li>&gt; Participation in CTFs everywhere in France and team security challenges online.</li></ul> <div>CTFd RootMe HackTheBox OverTheWire</div>
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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
- > [github.com/zteeed/adh6-global](https://github.com/zteeed/adh6-global)
- > Administration of a campus network connecting more than 1,000 subscribers
- > Extended IT management : Servers, switches, routers, NAS...
- > Deployment of WiFi and Ethernet enterprise network
- > Development of a scanning tool for managing public content on all the infrastructure
- > [github.com/zteeed/SNWT](https://github.com/zteeed/SNWT)

Cisco Angular6 python-nmap

## 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

[github.com/zteeed/Root-Me-API](https://github.com/zteeed/Root-Me-API)

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

[github.com/zteeed/cisco-vlan-manager](https://github.com/zteeed/cisco-vlan-manager)

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

Python-Netmiko Python-Flask Docker Redis

### EXPANDING A PROXMOX CLUSTER AUTOMATICALLY

2018-2019

[github.com/zteeed/proxmox-autoextend-cluster](https://github.com/zteeed/proxmox-autoextend-cluster)

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

[github.com/zteeed/Proxmox-Security-Integration-Tool](https://github.com/zteeed/Proxmox-Security-Integration-Tool)

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

[github.com/zteeed/CVE-2018-4407-IOS](https://github.com/zteeed/CVE-2018-4407-IOS)

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

[github.com/zteeed/self-driving-car-assembly](https://github.com/zteeed/self-driving-car-assembly)

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

[github.com/zteeed/recognition-handwritten-signatures](https://github.com/zteeed/recognition-handwritten-signatures)

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

Arduino Python PostgreSQL

**2ND PLACE ON SITE AT INSHACK2019**

02/05/2019

 [duboc.xyz/awards](https://duboc.xyz/awards)

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

 [duboc.xyz/awards](https://duboc.xyz/awards)

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

 [duboc.xyz/awards](https://duboc.xyz/awards)

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

 [duboc.xyz/awards](https://duboc.xyz/awards)

Capture The Flag cybersecurity competition organized by WaveStone

CTF Team HackademINT Paris