

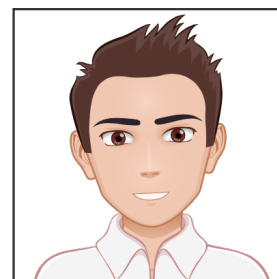
# Yousseuf Drif

NETWORK ENGINEER

Worldwide

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Contact me for a more detailed résumé :)



## Work Experience

### IRT Saint Exupéry

Toulouse, France

PHD

Feb. 2019 - Today

- Research and development engineer in the collaborative project SUPER-G with the objective of the integration of the satellite into the 5G networks and beyond.
- Simultaneously working on my PhD on the application of Software Defined Networks (SDN)/Network Function Virtualization (NFV) on the satellite network: virtualization of satellite components.
- Participate in SSIG meetings and pushing the satellite backhaul solution in the 3GPP standard release 17/18.
- Design and development of a satellite-5G interconnection device based on the 3GPP standard using the P4/P4Runtime language.
- Deployment of 5G networks: Core Network (free5GC) and RAN (UERANSIM, OpenAirInterface).
- Design, development and deployment of a satellite-5G orchestration testbed with the following tools: Kubernetes, Docker, ETSI OSM, OpenVSwitch, P4, P4Runtime.
- Part-time lecturer in 5G networks at Engineering schools and University of Toulouse.

### Airbus Defence and Space

Toulouse, France

R&D ENGINEER INTERN

Mar. 2018 - Oct. 2018

- Application of SDN and NFV concept to Satellite Networks. Studies of ETSI NFV MANO Framework, IETF NSH and OpenFlow.
- Development of a Proof of Concept to demonstrate the benefits of virtualizing the satellite network components.

### Restologia Pte Ltd.

Singapore

SOFTWARE ENGINEER INTERN

Jun. 2017 - Sep. 2017

- Design and development of an internal software to manage collaborators using JEE, Spring and SQL.

## Education

### National Polytechnic Institute from Toulouse (Toulouse INP) - ENSEEIHT

Toulouse, France

RESEARCH MASTER DEGREE

Sep. 2017 - Sep. 2018

- Network Analysis: Network Science, Machine Learning
- Network Management: SNMP, WBEM
- Content Networks: Information Centric Networks (ICN), Content Delivery Networks (CDN), P2P
- Networks Virtualization: SDN, NFV
- Development of a CDN Architecture using SDN as a key enabler (Ryu, OpenVSwitch, Nginx)

### National Polytechnic Institute from Toulouse (Toulouse INP) - ENSEEIHT

Toulouse, France

TELECOMMUNICATIONS & NETWORKS ENGINEER DEGREE - SPECIALITY BIG DATA INFRASTRUCTURE

Sep. 2015 - Sep. 2018

- OSI Model
- Networks and Protocol Security, L2/L3 VPN
- Performances Evaluation, Metrology, Traffic engineering (RSVP-TE, MPLS-TE)
- Overlay Networks: P2P (Gnutella, BitTorrent)
- Mobile Networks: GSM, UMTS, LTE, 5G
- Networks: WAN (X25, ATM, IP, SDH, PDH), MAN (Wi-Max), LAN (Token Ring, Ethernet, Wi-Fi)
- Routing protocols: BGP, OSPF, RIP, IS-IS
- Layer 1: Signal Processing (DFT, FFT, IFFT), OFDM, DMA, Equalization, ACM

### La Martinière Monplaisir

Lyon, France

PREPARATORY CLASS FOR THE "GRANDES ÉCOLES" (CPGE) PHYSIC, TECHNOLOGY AND ENGINEERING SCIENCE (PTSI-PT)

Sep. 2013 - Jun. 2015

- 2 Years of intense preparation class studying theoretical mathematics, physics and engineering science to prepare to the CPGE contests in order to integrate a high ranked computer science engineering school.

## Skills

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<b>DevOps</b>	Docker, Kubernetes, Vagrant, Git, GNU/Linux
<b>Back-end</b>	Gin-Gonic, gRPC, Flask, Quart
<b>Front-end</b>	VueJS, Flutter
<b>Programming</b>	Node.js, Python, Go, C, Dart, P4, LaTeX
<b>Languages</b>	French (native), English (professional), Arabic (notions)
<b>Sport</b>	Karate (7 Years), Mixed Martial Arts (1 Year)

## Honors & Awards

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2018	<b>Finalist – 2<sup>nd</sup> place</b> , Thales Arduino Contest - World Edition	<i>World</i>
2018	<b>Winner</b> , Thales Arduino Contest - France Edition	<i>Paris, France</i>
2013	<b>Finalist</b> , Olympics of Engineering Science - France Edition	<i>Paris, France</i>