

## Student at Ecole Polytechnique/Telecom Paris Looking for security and machine learning job

### Education

- 2021 – 2023 **Telecom Paris and Polytechnic Paris Institute**, Palaiseau, France's leading schools of informatic  
Spécialization: **Cyber Security**, **Machine Learning** and **Mobile Network**, Degree: **Engineer/Master**.  
Master IP Paris in **Machine Learning**, **Communication** and **Security**.
- 2018 – 2022 **Ecole Polytechnique**, Palaiseau, One of france's leading schools of science and engineering  
Spécialization: **Cyber Security** and **Machine Learning**, Degree: **Engineer/Master**.  
Courses followed: **Computer Science**(**Computer Architecture**, **Network and Information Security**, **Cryptology**, **Distributed Computing**, **Machine and Deep Learning**, **Compilation**), **Applied Mathematics**(Statistics, Markov Chain).
- 2016 – 2018 **INP-HB**, Yamoussoukro, Ivory Coast, Intensive undergraduate program leading up to competitive nationwide entrance examinations to the *Grandes Ecoles de France*(*Classes préparatoires MPSI*)

### Work experience

- April 2022 – October 2022 **Part-time Machine Learning/Security Engineer**, MITHRIL SECURITY, Paris, France  
○ Defenses against **model extraction** and **membership inference** for Deep learning Model.
- March 2022 – Sep2022 **Research Intern**, ALCATEL-LUCENT INTERNATIONAL NOKIA BELL LABS, Nozay, France  
○ ML based detection **Anomaly/attacks** on 5G network using **knowledge graph convolutional network**.  
○ Nokia decided to fill a patent (as standard essential) on a result found during our work.
- April 2022 **Part-time teacher**, ISEP, Paris, France  
○ Teacher for **Intrusion detection system** Lab.
- April 2021 – August 2021 **Research Intern**, INRIA, Rennes, France  
○ Design of a meta model of **cryptographic architectures** for verifying compliance with the good practice.
- June 2020 – August 2020 **Summer Intern**, CIE, Abidjan, Côte d'Ivoire  
○ Detection of anomalies on electrical installations from aerial images using **Keras**, **Tensorflow** and **Pytorch**.

### Project

- September 2018 – March 2022 **Working on projects**  
○ Implementing a point-to-point **communication** system of an **optical fiber**, a **generative deep neural network** representing the channel, a predictive model for the receiver.  
○ Implementing a **seq2seq model** to predict CIM-10 code from a diagnostic (**NLP**).  
○ Setting up a **dynamic pricing** using reinforcement learning and **recommandation system** on sales platforms.  
○ **Predicting** which driver signups are most likely to start driving for uber and the number of retweets of a tweet.  
○ Implementing **IoT attack**: Kill switch, DHCP spoofing, Tcp syn flood, DNS Hi Jacking.  
○ Implementing **snort** rules to build **firewall** for securing a local **network** and **yara** rule to detect **malwares**.  
○ Implementing a **mini c compiler** using java.

### Voluntary experience

- September 2022 **Junior Conference on Wireless and Optical Communications**, Telecom Paris, Palaiseau, France  
○ Presenting my work on False Base Station Detection.
- June 2019 – March 2021 **Member of X-Afrique**, Ecole Polytechnique, France  
○ X-Afrique works towards promoting the african culture, personal and professional opportunities in Africa.
- September 2018 **Leadership and military training**, French army, La Courtine, France  
○ Command exercises to develop leadership and teamwork; military training to improve the mental strength.

### Skills

#### Computer knowledge

- **Programming languages**: C, C++, java, python, Rust, R; Assembly language: X86.64; OS: Unix, Windows.
- **Network protocols**: IP, TCP/UDP, DNS, DHCP, HTTP; **Tools**: Docker, Github(Ouatt-Isma), Zotero.
- **Webmastering and data management**: HTML5, CSS3, JavaScript, PHP, My SQL, Wordpress.

#### Languages

- French (native), English (advanced), Chinese (beginner), Spanish (beginner).