BIBLIOGRAPHY

MELI TAMWA Jean Landry, is a cloud security engineer, full stack developer as well as an active researcher on topics related to artificial intelligence, cloud, IoT and computer security. He was born on August 07, 1999 at DSCHANG in the West region of Cameroon.

▪ **Academic background**

He currently holds a Master's degree in digital system security from the Ecole Supérieure d'Ingénieur de Recherche en Matériaux et en Infotronique in Dijon. His research work focused on network intrusion detection assisted by artificial intelligence. ESIREM thus offers a delocalized Master's degree in Cameroon for the production of engineers capable of responding to the problems of digital system security.

In 2019 he obtained the diploma of higher technician at the African Institute of Informatics option systems and networks. An academic experience of three years working on many topics: system and network administration in IS, software development, auditing, computer security, legislation in ICT, project management and many others.

In 2016, he obtained his scientific baccalaureate at the Evangelical College of Bafoussam.

He is currently pursuing his research on several themes at ESIREM and the Ecole Nationale Supérieure Polytechnique de Yaoundé.

▪ **Research**

MELI TAMWA Jean Landry is currently working on several research projects and is supervised by Professor Emeritus Emmanuel TONYE of ENSPY(https://fr.wikipedia.org/wiki/Emmanuel_Tony%C3%A9).

- Artificial Intelligence Assisted Intrusion Detection (IDAI): The work done is public and available in the American Journal of Engineering Research (https://www.ajer.org/papers/Vol-11-issue-3/K110399106.pdf e-ISSN: 2320-0847 p-ISSN: 2320-0936 Volume-11, Issue-03, pp-99-106). The main objective of this project is to put artificial intelligence at the service of engineers in charge of IS security. This involves the integration of several techniques such as: NLP, NLU, Deep Learning, NIDS, NIPS, ...
- Project to design a smart meter: Use of the Cloud, artificial intelligence and the Internet of Things applied to the management of electrical energy consumption. This project is the beginning of a long series of achievements as the final vision is to implement a Smart Grid system. This mainly involves deploying a network of sensors/actuators in electrical networks in order to optimize and reinvent the tasks of analyzing, collecting and distributing electrical energy. One of the key points is the continuous integration of renewable energies and the optimization of their use for the protection of the planet.
- Research on IP telephony: Experimental project to evaluate the power of software IPBXs for the deployment of telephone communication networks based on the TCP/IP protocol stack.

■ **Honors**

Winner of the 2019 ABANDA Prize at IAI Cameroon: Olympiads organized within IAI Cameroon and dealing with IT issues.

■ **Professional career**

Since 2022, Supervisor of practical work (IOT, Cloud, Security and Artificial Intelligence) at Ecole Nationale Polytechnique de Yaoundé. He supervises students in Master 1 and 2 in the different workshops. The series of works takes place in the laboratories of ENSPY and the students are called to work on innovative technologies. This includes projects that strongly integrate the Internet of Things. He also supervises orientation sessions for students on their research work.

From 2020 to 2021, Head of the Networks and Telecommunications Department at MIT² SARL (Mobile Information Technologies and Telecommunications). He is in charge of several operations of the company to achieve its objectives. These operations are: Administration of the intranet network and servers deployed in the Cloud (AWS) and VPS infrastructures; Management of operations in the CANAL+ network in the city of Yaoundé; Management of the company's fleet of technicians; Development of software solutions for customers; Management of the supply of computer equipment; Key member of the company's commercial campaigns.

From July 2019 to December 2019, Systems and Network Engineer in the Systems and Infrastructure Division at WIICOM SARL (Wifi communications).

■ **Career plan**

To push forward research in the fields of IoT, computer security and artificial intelligence in order to launch two full-scale products within 3 years: a product for the security of information systems and a product for the intelligent and automated management of electrical energy by electrical energy distributors. To work on these projects with teams that are gradually being built up.

Around these products, several other activities will be piloted, such as

- Audit missions in information systems security.
- Training for the effective transmission of skills. Training organized around the ENSPY, the IAI and other centers with a vision of technological innovation.
- Intelligent and automated distribution of electrical energy.
- Supporting other visionary projects that can create jobs and change the world in more or less significant ways.
- Democratizing technology in the sub-region.