

# DUFY TEGUIA

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## Education

- 2021 – 2022 **Master in computer science fundamentals (M2), Ecole Normale Supérieure de Lyon, France.**  
*Relevant courses* : Compilation and program analysis, Distributed systems, Parallel and distributed algorithms and programs.
- 2016 – 2021 **Master of engineering in Computer Science, National Advanced School of Engineering of Yaounde, Cameroon.**  
*Relevant courses* : Probability and Statistics, Data Structure and Algorithms, Theory of Compilation, Linear Algebra, C Programming, Cloud computing and virtualization.

## Experience

- 2023 – current **PhD. Thesis in computer science, Université Grenoble Alpes (UGA) | Orange Innovation, France.**  
*Description* : Advanced Techniques for Specialization of Containerized Network Functions
- 2022 **Research engineer in the N7 Institut de Recherche Informatique de Toulouse (INP Toulouse),** where I work on the paravirtualization of a PIM (Processing-In-Memory) hardware released by UPMEM (startup). This work was done using Firecracker (From Amazon) and Virtio (03 months).  
**Research intern in the Laboratoire de l'Informatique du Parralélisme (LIP) of the ENS de Lyon,** where I worked on the paravirtualization of a PIM (Processing-In-Memory) hardware released by UPMEM (startup). This work was done using Firecracker (From Amazon) and Virtio (06 months).
- 2021 **Research intern in the Laboratoire de l'Informatique du Parralélisme (LIP) of the ENS de Lyon,** where I improved the performances of a distributed hypervisor developed in the LIP, based on QEMU/KVM. This was a part of a more complex project named *Scalevisor* which aimed to build distributed virtual machines. (07 months).
- 2020 **Research intern with Alain TCHANA** (full professor at *École Normale Supérieure de Lyon*). The internship consisted of implementing the write-update protocol to optimize updates propagation between the nodes of a distributed hypervisor named **GiantVM**. (02 months).
- 2019 **Intern at Megasoft LLC, Yaounde, Cameroon** in which I implemented a mechanism, which aimed to upload/download huge files to/from the company's server in a secured way. (02 months).

## Grants

- 2021 **I have been awarded the Ampere Scholarship** from the *École Normale Supérieure de Lyon* in order to perform the **Computer science fundamentals** master program in that institution.

## Skills

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Languages	📌 <b>French</b> : Native, <b>English</b> : C1 ( <b>IELTS NOTE</b> : 7.5/9)
Software engineering	📌 Java,Rust, Design patterns, C, C++, Python, unit tests, UML, ...
Systems and Cloud computing	📌 Linux, Linux kernel, Virtualization, Cloud computing, MicroVMs, Firecracker, QEMU, KVM, Virtio
Misc.	📌 Know how to work in team, has initiative spirit, know how to build hypotheses and verify them, know how to build clear and understandable reports.

## Miscellaneous Experience

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### Awards and Achievements

- 2022 📌 **Winner of the Unikraft Lyon hackaton**, A hackaton that concerned a unikernel named Unikraft that took place in the ENS de Lyon ([here](#)).
- 2021 📌 **CSV seminar : Cloud, Storage and Virtualisation, ENSTA Bretagne, Brest, France**, a 2 days workshop in which I presented to other French research team, what I was currently working on (Performance of a distributed hypervisor).
- 2019 📌 **Huawei seeds for the future, Cameroon**, a 2 week program in Huawei's Headquarters in order to know about the Chinese culture and Cloud computing.

### Certification

- 2020 📌 **Google cloud infrastructure fundamentals : core infrastructure**. Awarded by Google on Coursera.

### Papers

- 2022 📌 **Analysis of a modern distributed hypervisor: what we learn from our experiments**, Mohamed Karaoui, Brice Teguaia, Bernabe Batchakui, Alain Tchana. The paper was accepted at the SPMA (Systems for Post-Moore Architectures) workshop ([here](#)).

### Volunteer experience

- 2020 📌 **Academic orientation conference**, I participated to the organization of an event which aimed to help students to choose the field they will go through in my school.