DUFY TEGUIA

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Education

2023 – current

PhD. Thesis in computer science, Université Grenoble Alpes (UGA) | Orange Innovation, France.

Description: Advanced Techniques for Specialization of Containerized Network Func-

2021 - 2022

Master in computer science fundamentals (M2), Ecole Normale Superieure 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

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 (o6 months).

Research intern in the Laboratoire de l'Informatique du Parralélisme (LIP) of the ENS de 2021 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).

Research intern with **Alain TCHANA** (full professor at École Normale Supérieure de Lyon). The 2020 internship consisted of implementing the write-update protocol to optimize updates propagation between the nodes of a distributed hypervisor named GiantVM. (02 months).

Intern at Megasoft LLC, Yaounde, Cameroon in which I implemented a mechanism, which 2019 aimed to upload/download huge files to/from the company's server in a secured way. (02 months).

Grants

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

Skills

Languages

French: Native, English: C1 (IELTS NOTE: 7.5/9)

Software engineering

Java, Rust, Design patterns, C, C++, Python, unit tests, UML, ...

Skills (continued)

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

Awards and Achievements

Winner of the Unikraft Lyon hackaton, A hackaton that concerned a unikernel named Unikraft that took place in the ENS de Lyon (here).

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).

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

Google cloud infrastructure fundamentals: core infrastructure. Awarded by Google on Coursera.

Papers

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

Volunteer experience

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