Jad DARROUS | Curriculum Vitae

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My Ph.D. studies

- I have worked on scalable and efficient data management for building and running data-intensive services in clouds. We first study the management of virtual machine images and containers images as the main entry point for efficient service provisioning. Specifically, we focus on data placement and retrieval for these images in order to improve service provisioning in geographically-distributed clouds and Fog/Edge environments. Second, towards efficient Big Data processing in the cloud, we investigate *erasure coding* (EC) as a scalable yet cost-efficient alternative for replication in data-intensive clusters. In particular, we study the opportunities and the challenges in integrating erasure coding for online data analytics.
- My advisors were Shadi Ibrahim and Christian Perez.
- My publications in international conferences:
  - **J. Darrous**, S. Ibrahim, C. Perez, "Is it time to revisit Erasure Coding in Data-intensive clusters?" in *Proceedings of MASCOTS* - 2019, Rennes, France.
  - **J. Darrous**, T. Lambert, S. Ibrahim, "On the Importance of Container Image Placement for Service Provisioning in the Edge" in *Proceedings of ICCCN* - 2019, Valencia, Spain.
  - **J. Darrous**, S. Ibrahim, A. C. Zhou, C. Perez, "Nitro: Network-Aware Virtual Machine Images Management in Geo-Distributed Clouds" in *Proceedings of CCGrid* - 2018, Washington DC, USA.

Education

- **Ph.D. in Computer Science: Large-scale Data Management** — **Lyon, France**
  École Normale Supérieure (ENS) de Lyon — *2016 – 2019*
- **Master in Computer Science: Parallel and Distributed Systems** — **Grenoble, France**
  Grenoble-Alpes University — *2014 – 2016*
- **Bachelor in Computer Science** — **Damascus, Syria**
  Damascus University — *2007 – 2012*

Professional experience

- **Inria Rennes Bretagne-Atlantique, IMT Nantes, STACK team** — **Nantes, France**
  Research Engineer — *Jan 2020 – Jun 2020*
  Implement dynamic erasure-coding chunk scheduling in Hadoop DFS.
- **Syrian Educational Publisher Co., for E-Publishing and E-learning** — **Damascus, Syria**
  Software Developer — *Jan 2013 – Aug 2014*
  Java based Epub3 desktop, mobile and web software.

Technical skills

- Programming languages: Python, Java, and C++.
- Frameworks and tools: Hadoop, Spark, Docker, OpenStack, Ansible, Vagrant, and Git.
- Academic experience in Natural Language Processing, Data Mining and Machine Learning.
- Familiar with mobile (android) and web (front-end and back-end) technologies.
- Critical thinking, creative problem-solving, teamwork spirit, and writing skills.

Honors and Awards

- PERSIVAL-Lab scholarship for academic excellence for the year 2015-2016.
- I was an active member in ACM-ICPC programming competitions as a contestant, coach and judge (2009-2014)