

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:
 - **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

- **PhD in Informatics** **Lyon, France**
École Normale Supérieure (ENS) de Lyon 2016–2019
- **Master in Parallel and Distributed Systems** **Grenoble, France**
University Grenoble-Alpes, Graduation mention is Very Good 2014–2016
- **Bachelor in Computer Science** **Damascus, Syria**
Damascus University, Graduation mention is Very Good 2007–2012

Professional experience

- **Inria Rennes Bretagne-Atlantique, IMT Nantes, STACK team** **Nantes, France**
Research Engineer, working with Shadi Ibrahim Jan 2020–Present
Cost-efficient stream data processing under erasure coding.
- **Syrian Educational Publisher Co., for E-Publishing and E-learning** **Damascus, Syria**
Software Developer Jan 2013–August 2014
Java based Epub3 desktop, mobile and web software.

Technical skills

- C++ (programming competitions), Java (professional experience) and Python (research prototyping).
- Good experience with (SQL and NoSQL) databases.
- Good experience in network programming and multi-threading.
- Familiar with the topics related to Natural Language Processing, Data Mining and Machine Learning.

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)
- The 8th place in the fourth annual *Math Olympiad* contest held by Department of mathematics, Damascus University 2012.