Renan Souza

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Bio

Renan Francisco Santos Souza holds a Ph.D. (2019) and an M.Sc. (2015) in Computer Science from COPPE/Federal University of Rio de Janeiro (UFRJ), and a B.Sc. in Computer Science from UFRJ (2009-2013). Since 2015, he works at IBM Research Brazil, where he is a Research Scientist in the Industrial Cloud Technologies group. He has been working both as a software engineer and a researcher in several projects since 2010 and has been actively publishing scientific papers in refereed international conferences and journals since 2014. During his B.Sc., he spent a school year at Missouri State University and did a summer internship at Stanford University in the SLAC National Laboratory. During his Ph.D., he was a visiting researcher at Inria/Univ. Montpellier in France in 2019. In 2017, he won the best M.Sc. thesis award from SBBD, the main conference on data management in Latin America. He researches large-scale data science and engineering techniques for the support of Artificial Intelligence systems.

Research Interests

Large-scale Data Science and Engineering • Parallel Workflows • Data Provenance • Big Data Analytics • High Performance Computing in Clusters and Clouds • Machine Learning •

Education

- o Ph.D. in Computer Science, Federal Univ. of Rio de Janeiro, Brazil
 Supervised by Marta Mattoso and Patrick Valduriez
 Title: Supporting User Steering in Large-scale Workflows with Provenance Data
- o Visiting Ph.D. Student, Inria/Univ. Montpellier, France Jan 2019 Mar 2019 Supervised by Patrick Valduriez
- o M.Sc. in Computer Science, Federal Univ. of Rio de Janeiro, Brazil Jan 2013 Jul 2015
 Supervised by Marta Mattoso
 Title: Controlling the Parallel Execution of Workflows Relying on a Distributed Database
- o Computer Science exchange student, Missouri State University, U.S. Jun 2011 Jun 2012
- o B.Sc. in Computer Science, Federal Univ. of Rio de Janeiro, Brazil Jan 2009 Dec 2012 Supervised by Maria Luiza Machado Campos

Title: Linked Open Data Publication Strategies: An Application in Network Performance Data (in pt)

o Technical Degree in Information Systems, Lemos de Castro Jan 2005 – Dec 2007

Experience

o IBM Research, Research Scientist	Aug 2019 – present
o IBM Research, Research Engineer	Sep 2015 - Aug 2019
o IBM Research, Software Engineer Intern	Apr 2015 - Sep 2015
 Stanford Univeristy, SLAC, Research Collaborator 	Aug 2013 - Dec 2014
 Stanford Univeristy, SLAC, Research Intern 	May 2013 – Aug 2013
o CAPGov - Government Technologies, Leading Software Engineer	Dec 2013 - Sep 2014

CAPGov - Government Technologies, Software Engineer
 CAPGov - Government Technologies, Software Engineer Intern

orn

Sep 2013 - Jan 2014 Jan 2011 - Jun 2012

o Federal Univ. of Rio de Janeiro, Software Engineer Intern

Jan 2010 - Jul 2011

Selected Publications

For complete list, visit: RenanSouza.org/publications

- [1] R. Souza, L. Azevedo, V. Lourenço, E. Soares, R. Thiago, R. Brandão, D. Civitarese, E. Vital Brazil, M. Moreno, P. Valduriez, M. Mattoso, R. Cerqueira, M. A. S. Netto, "Provenance data in the machine learning lifecycle in computational science and engineering," in *Workflows in Support of Large-Scale Science (WORKS) co-located with the ACM/IEEE International Conference for High Performance Computing, Networking, Storage, and Analysis (SC)*, 2019, pp. 1–10. DOI: 10.1109/WDRKS49585.2019.00006.
- [2] R. Souza, L. Azevedo, R. Thiago, E. Soares, M. Nery, M. Netto, E. V. Brazil, R. Cerqueira, P. Valduriez, M. Mattoso, "Efficient runtime capture of multiworkflow data using provenance," in *IEEE International Conference on e-Science (eScience)*, 2019, pp. 1–10. DOI: 10.1109/eScience.2019.00047.
- [3] **R. Souza**, V. Silva, J. J. Camata, A. L. G. A. Coutinho, P. Valduriez, M. Mattoso, "Keeping track of user steering actions in dynamic workflows," *Future Generation Computer Systems*, vol. 99, pp. 624–643, 2019, ISSN: 0167-739X. DOI: 10.1016/j.future.2019.05.011.
- [4] **R. Souza**, V. Silva, A. L. G. A. Coutinho, P. Valduriez, M. Mattoso, "Data reduction in scientific workflows using provenance monitoring and user steering," *Future Generation Computer Systems*, vol. online, pp. 1–34, 2017, ISSN: 0167-739X. DOI: 10.1016/j.future.2017.11.028.