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 Intelligent 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 the computer science department 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 with the Scientific Data Management team 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 data engineering techniques for the support of Artificial Intelligence systems.

Experience

○ IBM Research, Research Scientist	Aug 2019 – present
○ IBM Research, Research Engineer	Sep 2015 – Aug 2019
○ IBM Research, Software Engineer Intern	Apr 2015 – Sep 2015
○ Stanford University, SLAC, Research Collaborator	Aug 2013 – Dec 2014
○ Stanford University, SLAC, Research Intern	May 2013 – Aug 2013
○ CAPGov COPPE/UFRJ, Software Eng. Lead	Dec 2013 – Sep 2014
○ CAPGov COPPE/UFRJ, Software Eng.	Sep 2013 – Jan 2014
○ CAPGov COPPE/UFRJ, Software Eng. Intern	Jan 2011 – Jun 2012
○ Federal Univ. of Rio de Janeiro, Software Eng. Intern	Jan 2010 – Jul 2011
○ Petrobras, IT Intern	May 2007 – May 2008

Selected Publications

For complete list, visit: RenanSouza.org/publications

[1] **R. Souza**, V. Silva, A. A. B. Lima, D. Oliveira, P. Valduriez, M. Mattoso, "Distributed in-memory data management for workflow executions," *PeerJ Computer Science*, vol. 7, pp. 1–30, 2021. DOI: 10.7717/peerj-cs.527. [Online]. Available: https://peerj.com/articles/cs-527/.

[2] **R. Souza**, L. G. Azevedo, V. Lourenço, E. Soares, R. Thiago, R. Brandão, D. Civitarese, E. V. Brazil, M. Moreno, P. Valduriez, M. Mattoso, R. Cerqueira, M. A. S. Netto, "Workflow provenance in the lifecycle of scientific machine learning," *arXiv preprint Databases (cs.DB)*, pp. 1–21, 2020. [Online]. Available: https://arxiv.org/abs/2010.00330.

[3] **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.

[4] **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.