Daniel Aguiar da Silva Carvalho

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Current Position

PhD Student

I am a PhD student in Computer Science at the University Jean Moulin Lyon 3. Centre de Recherche Magellan's team.

Thesis title: Trusted SLA Guided Data Integration on Multi-Cloud Environments.

Supervisor: Chirine Ghedira-Guegan.

Co-supervisors: Nadia Benani and Genoveva Vargas-Solar.

Education

University Jean Moulin Lyon 3 [2014 – until now]

PhD in Computer Science at the University Jean Moulin Lyon 3.

Federal University from Rio Grande do Norte (UFRN) [2011 – 2013]

MSc. in Systems and Computation

Thesis entitled "Uma Máquina de Redução de Grafos para Serviços Web" (A Graph Reduction Machine for Web Services).

Federal Institute of Education, Science and Technology from Rio Grande do Norte (IFRN) [2008 – 2011]

B. S. in Technology in Analysis and Systems Development.

Thesis entitled "MaRiSA-Design: Uma Ferramenta para Transformação do Modelo de Projeto Detalhado para Modelo de Linguagem de Programação" (MaRiSA-Design: A Tool for transformation from Design model to a Program Language model).

Projects

GT-CNC-2 [2013-2013]

The GT-CNC is a project funded by the Rede Nacional de Ensino e Pesquisa (RNP). In its first phase, the GT-CNC evaluated tools for building storage clouds and established a prototype based on one of the tested tools. The prototype is similar to cloud services like Dropbox which performs functions such as creating folders, sending files to cloud services, etc. For its second phase, the GT proposes to refine this prototype to conduct a pilot of the cloud storage service. This refinement

includes the addition of authentication through the CAFe authentication and file access through the Web. In addition, the GT proposes to evaluate the adoption and integration of cloud with TERENA's Cloud Drive project.

Developer: As a team member I performed activities involving the following subjects: (i) Study and development of federated authentication; (ii) Extension of the Cloud Files API to support the federated authentication; and (iii) Integration of the Cloud Files API (which is implemented in Java) with the Cyberduck client (which is implemented using C#);

ePol [2010 - 2011]

ePol is a project to develop an electronic inquiry system to the Federal Police.

Developer: As a team member I performed activities involving the following subjects: (i) Development of corporative applications using JBOSS SEAM; (ii) Distributed version control using Mercurial; (iii) Development of corporative components with EJB (Enterprise Java Beans); (iv) Development of database components using JPA (Java Persistence API); (v) Development of web applications using JSF (Java Server Faces); (vi) Software testing with Selenium, jUnit and TestNG; (vii) Programming to Oracle databases; and (viii) Management of development projects with Redmine.

SMneticS [2010 - 2010]

The SMneticS is project to develop a web application for information disclosure through SMS messages.

Developer: the web application was developed using Java Server Faces and the PostgreSQL database.

Student Tech Club – RNet [2009 - 2009]

RNet is a study group formed by teachers and students that focus on developing application using the .Net technology.

Research leader: I was *group leader* during 1 year and I studied and taught lectures for beginners in programming using C# and Microsoft Visual Studio.

InterRed [2008 - 2010]

InterRed is a project that aims to create a system to provide, share, search and retrieval of a digital content aimed at vocational and technological education.

I was a *developer/designer* of flash applications and *digital content reviewer.*

Languages

Portuguese: mother language

English: read, written and spoken.

French: basics.

Publication

2015

D. A. S. Carvalho, P. A. Souza Neto, G. Vargas-Solar, N. Bennani, C. Ghedira, Can Data Integration Quality be Enhanced on Multi-cloud using SLA?, Short paper, *In Proceedings of the 26th International Conference on Database and Expert Systems Applications*, LNCS, Valencia, Spain, 2015 (to appear).

2015

Daniel A. S. Carvalho, José S. de Lima, Umberto S. Costa and Martin A. Musicante. A Graph Reduction Machine for Web Services. In preparation, 2015.

2013

Lucas Melo Silva, Felipe Leite da Silva, Daniel A. S. Carvalho, Thomas Diniz, Carlos Eduardo da Silva and Roberto Araújo. Estudo de Caso: Integração de Clientes da Nuvem Openstack Swift com uma Federação de Identidade. InWorkshop de Gestão de Identidades (WGID), XIII Simpósio Brasileiro de Segurança da Informação e Sistemas Computacionais (SBSEG 2013), 2013.

Teaching

Compilers. Federal University from Rio Grande do Norte (UFRN). Computer Science course. Brazil, 2011.

Theory of Computation. Federal University from Rio Grande do Norte (UFRN). Computer Science course. Brazil, 2013.

Practical Algorithms and Data Structured. Federal University from Rio Grande do Norte (UFRN). Computer Science course. Brazil, 2013.

Web Development. Federal Institute of Education, Science and Technology from Rio Grande do Norte (IFRN). Informatics' technical course. Brazil, 2013.

Structured and Object-Oriented Programming. Federal Institute of Education, Science and Technology from Rio Grande do Norte (IFRN). Informatics' technical course. Brazil, 2013.

Software Engineering. Federal Institute of Education, Science and Technology from Rio Grande do Norte (IFRN). Informatics' technical course. Brazil, 2013.

Applied Informatics. Federal Institute of Education, Science and Technology from Rio Grande do Norte (IFRN). Renewable Energy course. Brazil, 2013.

Fundamentals of Software Engineering. Federal Institute of Education, Science and Technology from Rio Grande do Norte (IFRN). Informatics' technical course. Brazil, 2014.

Structured and Object-Oriented Programming. Federal Institute of Education, Science and Technology from Rio Grande do Norte (IFRN). Informatics' technical course. Brazil, 2014.

Fundamentals of Logic and Algorithms. Federal Institute of Education, Science and Technology from Rio Grande do Norte (IFRN). Informatics' technical course. Brazil, 2014.

Informatics. Federal Institute of Education, Science and Technology from Rio Grande do Norte (IFRN). Electrical technical course. Brazil, 2014.

Events

2015	1st French Brazilian Spring School on Smart cities and Big data at University of Grenoble Alpes, Grenoble, France.

Programming Skills

.NET Framework *2 years experience*	Programming using Microsoft Visual Studio and SQL Server C# Programming Language Silverlight Asp.net
Java *6 years experience*	Programming using NetBeans IDE and Eclipse Java Programming Language Web development with JSP and JSF Corporative development with EJB Web service development Database access using JPA and JDBC Application development using JBOSS SEAM
Other experience	HTML, HTML5, Javascript, CSS C, C++, Ruby PostgreSQL, MySQL SVN and Git