Raul Kist

Résumé

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Profile

A versatile, keen and creative Software Engineer looking for an international career opportunity in the technical area.

Experience

2013–Present — **Software Engineer**, Geoimaging Solutions, Rio de Janeiro, Brazil.

Research projects on high end geophysical imaging using high performance computing for Oil & Gas industry.

Integration of Full Waveform Inversion (FWI) and Reverse-time Migration (RTM) and other algorithms on signal processing using C++ and Fortran on Big Data on Linux HPC clusters.

2010–2013 — **Software Engineer**, Schlumberger, Rio de Janeiro, Brazil.

Design and development of new products and technologies of software for Oil & Gas exploration and production, particularly on geophysical tools for Petrel E&P Software Platform.

- Comprehensive desktop programming experience using Fortran, C, C++ (CLI and native), C# and Java and integrating 40 years old legacy code to .NET applications;
- Attended international teams, dealing with people from different cultural backgrounds.
- 'Usability Champion' role (UX).

2006–2010 — **Software Engineer Intern**, Microsoft Innovation Center, Campinas, Brazil.

Research and development in Distributed Systems with emphasis in Interoperability, High Performance Computing, Virtualization and Cloud Computing, using both Microsoft and open source platforms.

Conceived and implemented server applications to coordinate load balancing on distributed systems using technologies like C#, Powershell and Windows Server 2008 R2 family products as Failover Clustering, HPC Server and Hyper-V.

Miscellaneous

2007–2009 — **Microsoft Student Partner**.

Former Microsoft 'Student Ambassador' position.
Academic lectures and articles about Microsoft related technology to undergraduate students.

Education

2006–2011 — **Computer Engineering**, *University of Campinas (UNICAMP)*, Campinas - Brazil.

Modality AA – Computer Systems

2004–2006 — **Pilot Officers Graduation Course (Curso de Formação de Oficiais Aviadores)**, *Brazilian Air Force Academy (Academia da Força Aérea)*, Pirassununga - Brazil, *Unfinished*.

Ranked as Air Force Cadet.
Course curriculum covers the areas of Military Aviation and Business Administration.

Publications

2010 **ViCOS - Virtual Cluster Orchestration System**, *CLCAR - Latin American Conference on High Performance Computing*, ISBN 978-85-7727-252-5.
An environment aware load balancing virtual cluster system that coordinates virtual machines that offer some service (HPC, SOA, etc) in a failover cluster, making a multipurpose environment which the main goal is to reduce the wasting of the infrastructure's computational potential.

Languages

Native	**Portuguese**	
Fluent	**English**	
Intermediate	**German**	*A little bit rusty*
Intermediate	**Spanish**	*Lived next to Argentina*

Technical skills

Programming Languages

C/C++	*6 years*
C#	*5 years*
Python	*3 years*

Plattforms (admin and user)

Windows Server	*2003 R2, 2008, 2008 R2, Core*
Windows	*XP, Vista, 7*
Linux	*Several flavors*

General Courses

2012	**Lean Management Workshop**	*Industrial Logic*
2012	**Applying Advanced Object Design with Patterns**	*Craig Larman*
2011	**Open Inventor Development**	*VSG*
2010	**Smart Grid Research & Gateway Development**	*IBM/Tivoli*
2009	**Network Performance Reporting**	*IBM/Tivoli*