

# Raul Kist

## Résumé

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## Experience

- 2015–Present **Software Engineer / Senior Software Engineer**, CEGAL AS, Oslo, Norway.  
Working on software for Oil & Gas exploration and production for Petrel E&P Software Platform using mostly C#.  
Development of Blueback Rocks Velocity, a versatile seismic velocity tool used for processing and analysis and Blueback BluePrint, an automatic and customizable reporting tool for complex projects.
- 2013–2015 **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 signal processing algorithms using C++ and Fortran with 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;
- 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	<b>Portuguese</b>	
Fluent	<b>English</b>	
Intermediate	<b>German</b>	<i>A little bit rusty</i>
Intermediate	<b>Spanish</b>	<i>Lived next to Argentina</i>

## Technical skills

### Programming Languages

<b>C/C++</b>	<i>6 years</i>
<b>C#</b>	<i>6 years</i>
<b>Python</b>	<i>3 years</i>

## General Courses

2017	<b>Machine Learning</b>	<i>Coursera</i>
2012	<b>Lean Management Workshop</b>	<i>Industrial Logic</i>
2012	<b>Applying Advanced Object Design with Patterns</b>	<i>Craig Larman</i>
2011	<b>Open Inventor Development</b>	<i>VSG</i>
2010	<b>Smart Grid Research &amp; Gateway Development</b>	<i>IBM/Tivoli</i>
2009	<b>Network Performance Reporting</b>	<i>IBM/Tivoli</i>