Alexandre di Costanzo

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34 years old

Technical Manager & Architect for Cloud Solutions

Profile

Strong technical background in distributed computer systems and object oriented programming languages. Confirmed experiences in grid, cloud systems, concurrent and parallel programming. Experiences in software conception and development.

Situation at Docapost BPO, France

Since January 2014   **Technical Project Manager of the Proveance Solution**

Proveance is a global outsourced solution for life/health insurance management: fully SaaS and continuous Innovation.

- Project Manager: 5 peoples on site and 2 near-shore) Morocco.
- Software Architect of the full solution.
- In charge of development and software integration.

2011 - 2013   **Tech Leader and Architect of the Contralia Solution**

Tech Leader of Contralia, a SaaS solution for legal digital signature.
- Team Leader of the dematerialization processes and digital legal signatures team (up to ten peoples)
- Design and development of the core and generic software components (workflow engine, security, monitoring, *etc.*)
- Contribute to the physical infrastructure architecture for applications with a 99.9 SLA
- Manage customers relations during developments phases (banks, insurance companies, national institutions)

Skills

Languages: Java (+ 9y), **Groovy (+ 4y)**, Python, C/C++, UNIX shells, XML, SQL, LaTeX, JSON, Markdown

Web Framework: Spring Grails (+ 4y), Spring Source

Web Services: SOAP & REST (architecting/implementing)

Development Tools (+ 9y): Eclipse, NetBeans, IDEA, CVS, Subversion, Git, Redmine, Trac, GForge, Jenkins/Hudson, Sonar, Wiki

Distributed and Grid Technologies: J2EE, RPC/RMI, Apache Hadoop (Map Reduce), Reservation and submission tools (OAR, PBS, LSF, Sun Grid Engine)

Virtualization and Cloud (+5y): Xen, KVM, Amazon AWS (EC2/S3/CloudFront), Open Nebula

Server Technologies: Apache Tomcat, Apache HTTPD, Postgresql, MySQL, Linux and scripting

Operating Systems: Advanced user of UNIX & Linux, Windows

Open Source: Contributor to ProActive

Information dissemination: Redaction (and peer-reviewing) of scientific papers for international journals, conferences, and books; tutorials for ProActive Parallel Suite

Experiences

2009-11
24 months

Senior Software Engineer at Avisto Telecom, France

Contractor at Docapost BPO, **Tech Leader and Architect** for the Dematerialization and Data Flow department. Two significants projects:
- Contralia: a SaaS solution for Digital Signature
- LRTE (Le Recommandé Tout Electronique): electronic registered mail system for the French national post (La Poste)

2009-10

Owner and Founder of Casual Syndicate K. K., Japan
- Casual Gaming Digital Download Distribution
- Architect & Developer of a SaaS platform for managing & distributing digital contents (such as games), built on top of cloud providers (Amazon AWS)

2008-09
18 months

Research Fellow at the University of Melbourne, Australia
- Conception, development, and evaluation of the InterGrid middleware to interconnect computing infrastructures (clusters, grids, and clouds)
- Amazon Web Services Research Grant of US$ 5,000 awarded, June 2009

2007
2 months

Software Engineer at National Institute of Computer Science (INRIA), France
- Developer of a Java middleware: ProActive Parallel Suite

2004 - 07
3 years

PhD in Computer Science:
     "Branch-and-Bound with P2P on Large-Scale Grids"
University of Nice Sophia-Antipolis / INRIA, France
- Built a computing infrastructure using clusters and desktop machines
- Development of a framework to solve optimization problems
- Developer of ProActive, user support, maintenance, demonstrations and presentations in international events
- International projects: CoreGrid, Grid'5000, Data Grid eXplorer, GridComp
- Dissemination of this thesis: Grant of 1M€ / 4 years to professionalize the computing infrastructure

2004
3 months

Visiting Researcher at Indiana University, Bloomington, USA
- Extreme Computing group: "Asynchronous Peer-to-Peer Web Services and Firewalls"

Education

2004 – 07 Ph.D. in Computer Science:
     "Branch-and-Bound with P2P on Large-Scale Grids"
University of Nice Sophia-Antipolis / National Institute of Computer Science (INRIA)

2003 – 04 Master in Computer Science: Networks and Distributed Systems
University of Nice Sophia-Antipolis, passed with honors, ranked 1st

Internships

2004 4 months	**INRIA, in Sophia-Antipolis, France** Master research internship in OASIS research group: "P2P Model and Infrastructure for Communicating Applications"
2003 4 months	**INRIA, in Sophia Antipolis, France** Development of a generic test and benchmark API for ObjectWeb ProActive
2002 4 month	**Quadrimo, in La Gaude, France** Created a cooperative application to manage real estates: buildings and apartments reservations
1999 4 months	**European Telecommunications Standards Institute (ETSI), in Sophia Antipolis** IT maintenance and preparation to the 2000 year bug
1998 4 months	**ETSI, in Sophia Antipolis, France** Developed an intranet site for the IT department

Relevant Publications

Evaluating the Cost-Benefit of Using Cloud Computing to Extend the Capacity of Clusters, Marcos Dias de Assunção, Alexandre di Costanzo, Rajkumar Buyya, *IEEE International Symposium on High Performance Distributed Computing*, 2009

Peer-to-Peer for Computational Grids: Mixing Clusters and Desktop Machines, Denis Caromel, Alexandre di Costanzo, Clément Mathieu. *Parallel Computing Journal on Large Scale Grid*, 2007

Grid'BnB: A Parallel Branch & Bound Framework for Grids, Denis Caromel, Alexandre di Costanzo, Laurent Baudel, Satoshi Matsuoka, *International Conference on high Performance Computing*, 2007

Branch-and-Bound with Peer-to-Peer for Large-Scale Grids, Alexandre di Costanzo, Ph.D. thesis, University of Nice Sophia Antipolis, 2007

Spoken Languages

French	Mother tongue
English	Fluent

Personal Project

The Pieuvre http://www.thepieuvre.com News Reader (RSS reader) based on natural language processing for extracting keywords and grouping articles by similarities. Technologies: Python NTLK, Redis, Grails/Groovy