Alexandre di Costanzo
Technical Director & Product Manager

Expert in Software Development for Insurers & Strong Background in Large Distributed System

Profile

Confirmed experiences in team leading & technical management of SaaS business product.
Strong technical background in distributed computer systems and programming languages.
Experiences in software conception and development: grid, cloud systems, concurrent and parallel programming.

Situation at Docaposte, France

Since 2014	**Technical Director & Product Manager - Insurance BU**

Previously known as Proveance (Docaposte's spinoff, now reincorporated) the Insurance Business Unit develop and run a global outsourced solution for life/health insurance management: fully SaaS. The solution covers most of the needs of insurances business (sale, accounts, billing, claim, refund, *etc.*) in a bounded medical confidentiality environment.

Main Roles:

- Management & Animation of the software engineering team: 10 peoples onsite and 5 near-shore (Morocco)
- Relation with the Docapost CIO for platform hosting (Docapost runs two Datacenter)
- Determine how the technology is used for implementing business solutions/strategies
- Technical operation manager
- Part of the market research
- In charge of the technology and architecture
- In charge of development and software integration
- In charge of the software quality

Major Accomplishments:
- Setup of the onsite team
- Setup of the near-shore site
- Services oriented architecture based on a designed for failures approach and micro-services
- Platform ready, on schedule, after nine months of developments/setups for the first clients and the accounts managers

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

Tech Leader of Contralia, a SaaS solution for legal digital signature and online subscription (bank account opening, loan finalisation, *etc.*)
- Team Leader of the dematerialisation 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 client relations during developments phases (banks, insurance companies, national institutions)

Skills

Languages: Java, **Groovy**, **Python**, C/C++, UNIX shells, XML, SQL, LaTeX, JSON, Markdown, Asciidoctor

Web Framework: Spring Grails, Spring Source, Django

Web Services: SOAP & REST (architecting/implementing)

Development Tools: Eclipse, NetBeans, IDEA, CVS, Subversion, Git, Redmine, Trac, GForge, Jenkins/Hudson, Sonar, Wiki , GitLab, Emacs

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

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

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

Operating Systems: Advanced user of UNIX & Linux, masOS

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 Docaposte, **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 18 months	**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

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