

## Technical Manager & Architect for Distributed Solutions

### Profile

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Confirmed experiences in team leading & technical management of SaaS business product.

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

### Situation at Docapost & Provéance (spinoff), France

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Since 2014 **Technical Director at Provéance**

Provéance is a global outsourced solution for life/health insurance business management: fully SaaS and continuous Innovation. The solution covers most of the needs of insurances business (sale, accounts, billing, claim, refund, etc.) in a bounded medical confidentiality environment.

2016 to Now :

- Management of the software engineering team: 5 peoples onsite
- Technical lead and Architect of the Platform Solution (Workflow Engine, ECM Store, Subscription, Billing, Printing, ...)
- Define technological strategy for the future of the platform
- Define development process quality
- (Try to) Apply Agile principles as Facilitator : team is now self-organised, automated continus delivery, ...

2014 - 2016 :

*Main Roles:*

- *Management of the software engineering team: 6 peoples onsite and 3 near-shore (Morocco)*
- *Relation with the Docapost CIO for platform hosting (Docapost runs two Datacenters)*
- *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*

*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 of the 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**

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**Languages: Java (+ 10y), Groovy (+ 5y), Python, XML, SQL, LaTeX, JSON, Markdown**

**Web Framework: Spring Grails (+ 5y), Spring Source**

**Web Services: SOAP & REST (architecting/implementing)**

**Development Tools (+ 10y): 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)**

2009-11  
24 months

### **Senior Software Engineer at Avisto Telecom, France**

Contractor at Docapost, **Tech Leader and Architect** for the Dematerialisation and Data Flow department. Two significant 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)
- Consulting in Cloud Solutions and Architectures

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

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

**Virtualisation and Cloud:** Xen, KVM, Amazon AWS (EC2/S3/CloudFront), Open Nebula  
**Server Technologies:** Apache Tomcat, HTTPD, Postgresql, MySQL, shell scripting

## Experiences

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**Methodologies:** Agile & Scrum ; 2016 Product Owner training

**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

## Education

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**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 honours, ranked 1<sup>st</sup>*

## Online Education

**May 2015: Completed Machine Learning courses** *provided by Stanford University through Coursera Inc.*

## Internships

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2004 4 months	<b>INRIA, in Sophia-Antipolis, France</b> Master research internship in OASIS research group: “P2P Model and Infrastructure for Communicating Applications”
2003 4 months	<b>INRIA, in Sophia Antipolis, France</b> Development of a generic test and benchmark API for ObjectWeb ProActive
2002 4 month	<b>Quadrino, in La Gaude, France</b> Development of a cooperative application to manage real estate projects: from apartment rehabilitations to reservations and dealings
1999 4 months	<b>European Telecommunications Standards Institute (ETSI), in Sophia Antipolis</b> IT maintenance and preparation to the 2000 year bug
1998 4 months	<b>ETSI, in Sophia Antipolis, France</b> Developed an intranet site for the IT department

## Relevant Publications

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**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

All publications are listed at <http://www.alex dico.com/publications/>

## Spoken Languages

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*French*      Mother tongue  
*English*     Fluent

## Personal Project

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*The Pieuvre* News Reader (RSS reader) based on natural language processing for extracting keywords and grouping articles by similarities.  
Open Source at <https://github.com/thepieuvre/thepieuvre>  
Technologies: Python NLTK, Redis, Grails/Groovy