



## MAIN SKILLS

### Innovation projects & tech leadership (CTO)

Wide culture of the medias and web area - technologies, concerns, trends  
Team build-up, design, realization, deployment, support  
Functionnal analysis, planning, technology choices and decisions  
Requests for bid, partners and contractors identification

### Web architecture & pragmatic change management

Defining infrastructure guidelines and urbanization  
Mentoring teams in implementation and skill development  
Implementing micro-service architecture, containerization (Docker)  
Virtualization and cloud migration (private/public)  
API-First, JAMStack architectures

### Technical expertise

High-traffic hosting platforms (VoD, e-commerce, information medias)  
DevOps transformation & continuous integration CI/CD  
HTML/CSS, Git, RubyOnRails, DNS, Debian, MySQL/MariaDB, Apache/Nginx, Postfix  
Network architecture from L2 to L7, proxies, VLAN 802.1q  
IoT ecosystems and smart home, distributed platforms



## WORK EXPERIENCE

2017 | 2.5 years

Paris (France)

### Solutions Architect - Digital business unit

La Française des Jeux (FDJ)

Defined the target micro-services architecture

- Defined and executed the migration to REST and micro-services patterns
- Raised management and other teams awareness to state-of-the-art patterns
- Handled tech choices, data modeling, execution along with teams

Supervised and guided development teams

- Monitored tech-lead developpers with weekly workshops
- Organized and presented several internal talks - projects feedback, RabbitMQ messaging...
- In charge of projects architecture definition for day-to-day projects

Set up continuous integration and deployment (CI/CD) using Docker

- Containerization on Docker Swarm and automated pipelines for new projects
- Offered guidance and skills development for quality assessment and production teams

Built a reference team based on NodeJS/MongoDB + lean management

- Introduced the first NodeJS and MongoDB stack company-wide
- Implemented full automatization of the development process (build, test, deploy)
- Obtained strong involvement of developers, testers, business experts and quality teams

2016 | 1 year

Paris (France)

### Micro-services platform architect

RueDuCommerce

Refined the transformation trajectory of the IT department and led the movement

- Sensibilisation de la Direction par la cartographie et l'illustration des principes d'architecture
- Mentoring des tech-leads et évangélisation permanente (ateliers hebdomadaires)
- Diverses présentations effectuées (retours d'expérience, messaging temps-réel sur RabbitMQ, ...)

Automated and implemented CI/CD practices (on containers and private cloud)

- Conversion des équipes à la production d'images Docker pour la production
- Mise en oeuvre du pattern BFF pour les fronts - agrégation de services et séparation data/vue
- Intégration des concepts dans les développements existants pour obtenir une démonstration concrète



## Bruno Medici

Freelance web architect | CTO

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## EDUCATION

Engineering Master Degree  
Mobile communications  
Marketing of technology

International conferences  
Elixir Conf 2020 Warsaw  
Rails Conf 2010 Baltimore  
Rails Conf 2009 Las Vegas  
Rails Conf 2007 Berlin  
Paris On Rails 2007 Paris  
PHP Conf 2004 Amsterdam  
PHP Conf 2002 Munich

Training and workshops  
Google Cloud Platform  
Fundamentals and  
Architecting (Paris)  
Cisco CSPFF & CSPFA (PIX  
Firewall Advanced)  
PSC1 civil emergency  
prevention

DUT Networks & Telecoms  
IUT Sophia-Antipolis (2000)

Bac S (TI)  
School diploma in Sciences

## INTERNATIONAL

Mobilité • France, pays anglophones, monde

Français • langue maternelle

Anglais • courant (TOEIC 920)

Italien • bases scolaires

2014 | 4 years  
Paris (France)

### Architect - Video/VoD platform re-engineering

Built the new replay platform handling all the contents    FranceTV Editions Numériques  
(18-months project, several experts)

- Defined a new REST-API and micro-services-based architecture, orchestrated by our in-house scheduler
- Studied and rationalized VoD business workflows, defined APIs, coached development teams(PHP/Symfony2)
- Iterated over specifications, development, aiming to continuous deployment
- Successful production since Q2 2015, fully operational 300+ programs per day
- Initiated and build the "rest-ftp-daemon" open source micro-service project
- See "Opensource projects" below
- Initiated the global messaging system for realtime notifications (AMQP)
  - Connecting each platform of the Group (Pluzz, CultureBox, FranceTV Info/Sports/Education...)
  - Interacted with commercial partners (Molotov.tv, Orange...)
- Led strategic collaboration on several projects across the Group
  - Defined architecture workframe for Zoom (on-demand recommendation of content)
  - Managed architecture for the cross-products tagging system
  - Connected TV services upgrades, overhaul of the platform for "channels and programs" websites

2013 | 6 months  
Paris (France)

### Hosting specialist - change management

Société Générale

Re-integrated the Crédit du Nord branch activity (integration and maintenance perimeters L2/L3)

- Studied convergence of Crédit du Nord and Société Générale solutions and technologies
- Acquired leadership for ongoing integration projects, helped takeover for L2 and L3 support teams
- Successfully built a cooperating ecosystem between legacy teams and new teams
  - Transferred knowledge and documentation to each team on Société Générale side

### INTERESTS

Scuba diving • N2  
PA40/PE60 TDI Deep+Nitrox

Private pilot • Ultra-light licence (BB) Private pilot license upcoming (PPL)

Photography • Studio, tourism, portrait, urban exploration

Smart Home & IoT • Automation, connected objects based on Arduino/ESP8266/ESP32

RubyOnRails • Dev, R&D, various online services

President of LilleSansFil (until 2005) • Free metropolitan wireless network / wifi Strategy, press and institutions relations Embedded systems, mesh networking

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2012 | 3 months  
Réau (France)

### Consulting architect - network and security

SAFRAN Groupe & SNECMA

Took over skills and responsibility of network security from SNECMA branch to headquarters

- Explored perimeter, methods and potential risks
  - Reverse engineering and back-documentation of main topics
  - Consolidation de diverses plateformes multi-sites
- Brought internet technologies expertise about email, DNS, network security and web filtering

2011 | 18 months  
Paris (France)

### Architect - Video/VoD platform re-engineering

CANAL+

Urbanized multiple video-on-demand platforms for the Group, defined the target architecture

- Proposed architecture rationalization for offers like CanalSat, Canal+, CanalPlay Infinity and replay-tv (encoders, media provisioning)
- Described and modelled business processes for the entire VoD production stack, wrote technical specifications basis
- Introduced micro-services, defined APIs (ingest, transcoding, file provisionning, monitoring)
- Led the call for bids for the workflow engine function
- Coordinated RFI and RFP with 12 international media providers (documents written in English)
- Organized proofs-of-concept for the top5, project in close cooperation with CTOs and top management
- Managed the storage restructuring project within Diffusion branch (above 1 PB of data)
  - Made technical recommendations for transcoding storage, distribution and long-term archives
  - Led the project team, defined specifications, horizontal and vertical scalability

2010 | 1 year  
Lille (France)

Internet and security architect

Crédit du Nord, Société Générale

- Practiced technical architecture and evolutions of Customers Internet platforms
  - Worked with several firewalls, reverse proxies, load balancers, IPS, Redhat/OpenBSD
  - Used HTTP expertise, caching, filtering, L7 routing through Apache mod\_rewrite
  - Introduced methods and tools for configuration versionning and deployment
- Defined hosting architecture for Mobile Internet services (customers of 7 branches/banks)
  - Implemented mobile-specific caching, protocols and compression
  - Revived staging platform to allow better testing and team work (same as production)

2009 | 6 months  
Paris (France)

Architected onboard platform for TGV trains

SNCF/BOLLORE

- Defined and built a service platform with internet access, aboard of TGV-Est trains
  - Audited the technical architecture proposed by the consortium Orange, Cap Gemini, Alstom, Eutelsat
  - Recommended updates and improvements leading to new commercial opportunities
  - Participated in the founding of the joint venture between Bollore-SNCF, key public project
- Defined technical functional architecture for onboard and ground-train link
  - Directed development of embedded-specific interfaces

2008 | 1 months  
Paris (France)

## Audit and content-delivery providers selection

FRANCE 24

Audited coupling between business-critical systems and content-delivery providers  
Published optimization recommendations for the hosting architecture, basis for a tender session

2008 | 3 months  
Reims (France)

## Information system architect

Reims & Chaumont Hospitals

Set up a system federating data for several hospitals, case study and recommendation of a technical architecture, security expertise, workflow  
Helped project office, requests for bid, facilitated developments

2007 | 6 months  
Paris (France)

Web and medias strategy consultant

FRANCE 24

- Lead the 2007 coverage of the French presidential election on the web
  - Animated the dedicated team (moderators, translators, 20 international bloggers)
  - Experimentation of the media convergence (broadcaster, internet and television audience)
  - Live video streaming, realtime voting results, internet visitors reactions, SMS-number offering interaction to the audience, 5 webcams in the newsrooms (98k+ visitors for both ballots)
- Provided strategic support for the IT department
  - Strengthened the image of France24 in the world, and on the blogosphere
  - Built the team and the methods around the required technical skills
  - Implemented various projects thereafter, within the channel's teams (Cannes Festival, general elections)
- Conducted and wrote the request for bid for the new web infrastructure

2001 | 5 years  
Lille (France)

**Co-founder and CTO of Itool Systems**    Itool Systems, SaaS software editor

Associate and co-founder, board member

Itool Systems creates and sells online business solutions for SMC and Professional Accountants  
Launched portal itool.net (Prof accountants) and itool.com (SME market)  
Obtained an Innovation Reward at the Accountants Annual Congress in 2001, IntraBlog Award in 2007.

Integrated and then absorbed Atomis

**Architect and production executive**

Designed billing infrastructure and online registration processes.  
Deployed a robustness-oriented hosting cluster (20 servers over 4 sites) certified by IBM's SPC lab.

Reached great service availability avg 99,96% ranked n1 by ip-label in May 2005

**Development team manager (5)**

Realized as a team leader - Itool Compta, Itool Facto, Itool Scan, Itool GED, APG Facto, press routing solutions, data-exchange hub with partners.

Supplied technological intelligence, ergonomics of applications, development methodology.

2000 | 2 years  
Lille (France)

**Team leader, development of Itool Compta**    Atomis, Internet Services

Designed an online software offer  
Built the Itool line of products - accounting, invoicing, digital documents management

## OPENSOURCE PROJECTS

### rest-ftp-daemon

Industrial-grade files transfers on FTP/sFTP/FTPs/S3 controlled by a RESTful API.  
Instrumented by NewRelic, build by CodeShip+BuddyWorks, code quality by CodeClimate.  
Deployed in production since 2016 for France Télévisions - transferring 300+ video files 2TB+ daily.

### rbpm - Ruby Business Process Manager

Workflow manager to orchestrate RESTful microservices.

### pushyd - Realtime push messages proxy

Realtime events diffusion from an AMQP broker to partners (HTTP POST).  
Used by France Télévisions to propagate start/end program events to VoD partners

### service-graph

Dependencies computing and graphing between microservices, scanned on Gitab repositories.