

♥ MAIN SKILLS

Innovation projects & tech leadership (CTO)

Wide culture of the medias and web areas - 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
Micro-service and API.RESTful-centric architectures, containerization (Docker), API-First architectures
Virtualization and cloud migration (private/public)

Technical expertise

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

📁 WORK EXPERIENCE



2020 · 4 months
Paris (France)

Lead Software Architect

Ontex Digital Factory

e-commerce | API first | Micro-services | Health Care | PHP/Symfony

Defined the next e-commerce subscription platform
Contributed to an innovative IoT project (hygiene area)



2017 · 2.5 years
Paris (France)

Solutions Architect - Digital BU

FDJ Française des Jeux

Digital transformation | Micro-services | CI/CD | PHP | MariaDB | NodeJS | MongoDB | Docker

Supervised and guided development teams
Defined the target micro-services architecture
Set up continuous integration and deployment (CI/CD) using Docker
Bootstrapped and led reference teams on NodeJS/MongoDB + lean management



2016 · 1 year
Paris (France)

Re-platforming architect to micro-services

RueDuCommerce

E-commerce | Replatforming | Micro-services | CI/CD | PHP | Docker

Refined the transformation trajectory of the IT department and led the movement
Automated and implemented CI/CD practices (on containers and private cloud)
Developed technical models for the new architecture



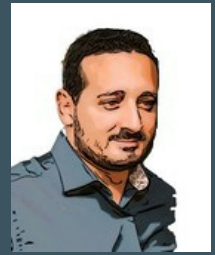
2014 · 4 years
Paris (France)

Architect - VoD platform re-engineering

FranceTV Numérique

Media & broadcast | Replatforming | Micro-services | VoD | Push messaging | High traffic | CDN delivery

Built the new replay platform handling all the contents (18-months project, several experts)
Initiated and build the "rest-ftp-daemon" open source micro-service project
Initiated the global messaging system for realtime notifications (AMQP)
Led strategic collaboration on several projects across the Group



Bruno Medici

Freelance web architect | CTO

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in [brunomedici/](https://www.brunomedici.com/)

🐙 github.com/bmedici

🌐 bmconseil.com

EDUCATION

Engineering Master Degree

Mobile communications
Marketing of technology

International conferences

Elixir Conf 2020 Varsaw
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

Mobility • France, pays anglophones, monde

French • langue maternelle

English • courant (TOEIC 920)

Italian • basic (father)



2013 · 6 months
Paris (France)

Hosting specialist - change management

Société Générale

Banking | Project coordination | Platform access security | DenyAll / Web | ActivNetwork

Re-integrated the Crédit du Nord branch activity (integration and maintenance perimeters L2/L3)
Successfully built a cooperating ecosystem between legacy teams and new teams



2012 · 3 months
Réau (France)

Consulting architect - network and security

SAFRAN / SNECMA

Defence security | 50k+ users | Cisco | Bluecoat

Took over skills and responsibility of network security from SNECMA branch to headquarters
Brought internet technologies expertise about email, DNS, network security and web filtering



2011 · 1.5 years
Paris (France)

Architect - Video/VoD platform re-engineering

CANAL+

Media & broadcast | Architecture | Business workflows | R&D | Transcoding | Storage | Delivery

Urbanized multiple video-on-demand platforms for the Group, defined the target architecture
Led the call for bids for the workflow engine function
Managed the storage restructuring project within Diffusion branch (above 1 PB of data)



2010 · 1 year
Lille (France)

Internet and security architect

Crédit du Nord, Société Générale

Banking | Platform architecture | High traffic | IP networking

Practiced technical architecture and evolutions of Customers Internet platforms
Defined hosting architecture for Mobile Internet services (customers of 7 branches/banks)



2009 · 6 months
Paris (France)

Architected onboard platform for TGV trains

SNCF/BOLLORE

Audit | Architecture | Embedded service portal | Rail industry | Ruby on rails | PHP

Defined and built a service platform with internet access, aboard of TGV-Est trains
Defined technical functional architecture for onboard and ground-train link



2008 · 1 month
Paris (France)

Audit and content-delivery providers selection

FRANCE 24

Media & broadcast | High traffic platform | CDN delivery | Akamai | Drupal

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

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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2008 · 3 months
Reims (France)

Information system architect

Reims & Chaumont Hospitals

Healthcare Personal data security National repository Ruby on Rails PKI

Set up a system federating data for several hospitals, sase 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

Media & broadcast Project management CDN delivery Video streaming Opensource

Lead the 2007 coverage of the French presidential election on the web
Provided strategic support for the IT department
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 editor

Co-founder Finance & accounting Pure-player Innovation Business award Management

Associate and co-founder, board member
Architect and production executive
Development team manager (5)



2000 · 2 years
Lille (France)

Team leader, development of Itool Compta

Atomis, Internet Services

asp/saas php/mysql framework haute-dispo métier sécurité

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

OPENSOURCE & PERSONNAL PROJECTS

photofactory.io

RubyOnRails MongoDB MinIO (object storage) Redis Docker Swarm Social auth (Facebook, Google)

Built a social platform for photography enthusiasts from scratch
A new way to share for artists and photo enthusiasts
Showcase your digital photowork - Store your pictures, manage galleries, and highlight your work on the web
Manage contacts and collaborations - Organize your model and photographers information, keep track of planned projects.
Share with clients and partners - Publish private galleries for you customers and guests, synchronize images with social networks.

Intelligent heater thermostat and airing controller

IoT C++ Arduino Embedded ESP32 PID regulation I2C/SPI

rest-ftp-daemon

Ruby Micro-service Opensource File transfer High traffic Production

Industrial-grade files transfers on FTP/sFTP/FTP_s/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

Ruby Micro-service Opensource Workflow management PoC

Workflow manager to orchestrate RESTful microservices.

pushyd - Realtime push messages proxy

Ruby Micro-service Opensource AMQP Push messaging

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

[Ruby](#) [Micro-service](#) [Opensource](#) [Service map](#) [PoC](#)

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