

MAIN SKILLS

Innovation projects & tech leadership (CTO)

Medias & TV, web, e-commerce and start-up (tech, business, challenges knowledge)
Solutions design, build, deploy, operate
Business analysis, planning, technology choices and decisions
Experts team build-up and innovation management

Web architecture & pragmatic change management

Defining infrastructure guidelines and urbanization
Mentoring teams in implementation and skill development
Micro-service and RESTful API patterns, containerization (Docker), API-First architectures
Virtualization and cloud migration (private/public)

Technical expertise

Software factory automation (CI/CD), DevOps teams buildup
Kubernetes hosting, GitOps automation
High-traffic hosting platforms (VoD, e-commerce, information medias)
IoT ecosystems and smart home, distributed platforms
Network architecture L2-L7, proxies, VLAN 802.1q, etc
HTML/CSS, Git, RubyOnRails, DNS, Debian, MariaDB, MongoDB, Apache/Nginx, Postfix



Bruno Medici

Freelance web architect | CTO

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WORK EXPERIENCE



2021 · 1 year
Full remote (Paris)

Principal Engineer / Head of architecture

Scale-up Kubernetes Gitops Micro-services NodeJS CI/CD Management Mobility

Principal Engineer - tech expertise and leadership
Manager of the Mobility Framework team (6 senior engineers)

Free2move

2020 · 4 months
Paris (France)

Lead Software Architect

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)

Ontex Digital Factory

2017 · 2.5 years
Paris (France)

Solutions Architect - Digital BU

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

FDJ Française des Jeux

2016 · 1 year
Paris (France)

Re-platforming architect to micro-services

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

RueDuCommerce

EDUCATION

Engineering Master Degree (IMT
Lille-Douai, ex ENIC)
Mobile communications
Marketing of technology

International conferences

Elixir Conf 2021 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

GCP Fundamentals & Architecting
Cisco PIX Firewall Advanced
PSC1 civil emergency prevention

DUT Networks & Telecoms
IUT Sophia-Antipolis (2000)

Bac S (Techno indus)
School diploma in Sciences

INTERNATIONAL

Mobility
France, English-speaking countries,
rest of world

French
Mother tongue

English
Pro proficiency (TOEIC 920)

Italian
Basic (father)



2014 · 4 years
Paris (France)

Architect - VoD platform re-engineering

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

FranceTV Numérique

SOCIETE GENERALE
2013 · 6 months
Paris (France)

Hosting specialist - change management

Banking | Project coordination | Platform access security | DenyAll rWeb | 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

Société Générale

SAFRAN
2012 · 3 months
Réau (France)

Consulting architect - network and security

Defence security | 50k+ users | Cisco | Bluecoat

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

SAFRAN / SNECMA

CANAL+
2011 · 1.5 years
Paris (France)

Architect - Video/VoD platform re-engineering

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)

CANAL+

Crédit du Nord ★
2010 · 1 year
Lille (France)

Internet and security architect

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)

Crédit du Nord, Société Générale

SNCF Bolloré
2009 · 6 months
Paris (France)

Architected onboard platform for TGV trains

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

SNCF/BOLLORE

FRANCE 24
2008 · 1 month
Paris (France)

Audit and content-delivery providers selection

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

Audited coupling between business-critical systems and content-delivery providers
hosting architecture optimization recommendations (Special Technical specs)

FRANCE 24

INTERESTS

Scuba diving
N2 PA40/PE60
TDI Deep-diver, 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
Development, R&D, several hosted services

LilleSansFil
Non-profit, president (2005)
Open metropolitan network (wifi), press and institutions relations
Embedded systems, mesh radio networking

PROJECTS & OPENSOURCE

[photofactory.io](#)
Web platform for artists and photo enthusiasts
Showcase digital photowork, manage contacts and workshops, share with clients and partners

[vancomfort](#)
Embedded heater thermostat and airing controller

[rbpm](#)
Technical workflow manager to orchestrate RESTful microservices

[rest-ftp-daemon](#)
Industrial-grade files transfers with a RESTful API
Manages heavy files transfers on FTP, sFTP, FTPS S3, (media files)
Deployed in production since 2016 for France Télévisions - transferring 300+ video files 2TB+ daily

[pushyd](#)
Propagates real-time events from broker to partners
In use by France Télévisions to propagate start/end program events to VoD partners

[service-graph](#)
Micro-service dependencies and graphs from Gitlab repositories

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2008 - 3 months
Reims (France)

Information system architect

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

Reims & Chaumont Hospitals



2007 - 6 months
Paris (France)

Web and medias strategy consultant

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

FRANCE 24



2001 - 5 years
Lille (France)

Co-founder and CTO of Itool Systems

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

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

Itool Systems, SaaS editor



2000 - 2 years
Lille (France)

Team leader, development of Itool Compta

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

Atomis, Internet Services