♥ MAIN SKILLS

Innovative projects management - tech leadership

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

Web and medias architecture - pragmatic change management

Critical and high-load hosting platforms (VoD, e-commerce, information medias)
Defining technical infrastructure guidelines and urbanization
Mentoring teams in implementation and skill development
Implementing micro-service architecture, containerization (Docker)
Virtualization and cloud migration (private/public)

Technical expertise areas

Critical and high-load 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

Solutions Architect - Digital business unit

La Française des Jeux (FDJ) - Paris (France) - 2017

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
Montored tech-lead developpers with weekly workshops
Orgaznized and presented several internal talks - projects feedback, RabbitMQ messaging...
In charge of projects architecture dfnition 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)
Obtainted strong involvement of developers, testers, business experts and quality teams

Micro-services platform architect

RueDuCommerce - Paris (France) - 2016 - 1 year

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

Video platform reengineering architect

France Télévisions Editions Numériques - Paris (France) - 2014 - 4 years

Built the new replay platform handling all the contents (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

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Bruno **Medici**

Freelance web architect | CTO

✉ cvweb2@bmconseil.com

📞 +33 611 647 608

📍 Paris 13 + Lille Centre

in linkedin.com/in/brunomedici/

github.com/bmedici

🌐 bmconseil.com

EDUCATION

Engineering master degree
IMT Lille-Douai
Mobile communications
Marketing of technologies

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, Nice-Sophia, 2000
Higher National Diploma

Baccalauréat Scientifique
School diploma in Sciences

Hosting specialist - change management

Société Générale - Paris (France) - 2013 - 6 months

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

- Tansferred knowledge and documentation to each team on Société Générale side

Consulting architect - network and security

SAFRAN Groupe & SNECMA - Réau (France) - 2012 - 3 months

Took over skills and responsability 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

Urbanist & architect for the new VoD platform

CANAL+ - Lille (France) - 2011 - 18 months

Urbanized multiple video-on-demand plateforms 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)

Lead the call for bids for the workflow engine function

- Coordinated RFI and RFP with 12 international media providers (documents writtendin 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 recommandations for transcoding storage, distribution and long-term archives
- Led the project team, defined specifications, horizontal and vertical scalability

Internet and security architect

Crédit du Nord, Société Générale - Lille (France) - 2010 - 1 year

Practiced technical architecture and evolutions of Customers Internet platforms

- Worked with several several firewalls, reverse proxies, load balancers, IPS, Redhat/OpenBSD
- Brought 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)

Architected onboard platform for TGV trains

SNCF/BOLLORE - Paris (France) - 2009 - 6 months

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
- Recommanded updates and improvements leding to new commercial opportunities
- Participated in the founding of the joint venture between Bollore-SNCF, key public project

Defined technical functionnal architecture for onboard and ground-train link

- Directed development of embedded-specific interfaces

Audit and content-delivery providers selection

FRANCE 24 - Paris (France) - 2008 - 1 months

Audited coupling between business-critical systems and content-delivery providers

Published optimization rcommendations for the hosting architecture, basis for a tender session

Information system architect

Reims & Chaumount Hospitals - Reims (France) - 2008 - 3 months

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

Web and medias strategy consultant

FRANCE 24 - Paris (France) - 2007 - 6 months

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

Co-founder and CTO of Itool Systems

Itool Systems, SaaS software editor - Lille (France) - 2001 - 5 years

Associate and co-founder, board member

> Itool Systems creates and sells online business solutions for SMC and Professional Accounants
> Launched portal itool.net (Prof accountants) and itool.com (SME market)
> Obtained an Innovation Trophy 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.

Team leader, development of Itool Compta

Atomis, Internet Services - Lille (France) - 2000 - 2 years

Designed an online software offer

> Build 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 Télécisions - 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.