

## MAIN SKILLS

### Technical leadership & team management (CTO)

START-UP · SCALE-UP · MENTORING · API · MEDIAS · E-COMMERCE · MOBILITY

Recruiting and structuring engineering teams, driving organizational change  
Mentoring tech leads, hands-on contribution (code, architecture, code reviews)  
Advisory to founders and CTOs, training, technical talks

### Tech architecture & pragmatic change management

ARCHITECTURE · MICROSERVICES · API · DOCKER · DEVOPS · CHANGE MANAGEMENT

Target architecture definition, systems mapping, migration roadmap  
Technical oversight from design to production, end-to-end delivery  
Microservices, RESTful APIs, Docker, API-First — implementation and team adoption

### Technical expertise

GITOPS · CI/CD · CLOUD-NATIVE · IOT · ESP32 · BLE · MQTT / RABBITMQ · KUBERNETES · RUBYONRAILS

CI/CD automation, GitOps, cloud-native architecture, Kubernetes, observability  
High-traffic platforms — VoD, e-commerce, news media (FranceTV, Canal+, FDJ)  
IoT engineering, embedded systems, smart home electronics (ESP32, BLE, MQTT)

## WORK EXPERIENCE



### Founder & CEO

IOT · HARDWARE · EMBEDDED · ESP32 · FIRMWARE · STARTUP · ENTREPRENEUR · FRENCH TECH

Smart IoT hub centralizing vehicle vital metrics — proprietary stack (ESP32 firmware, OTA updates, SaaS, mobile), TRL 8-9

Non-invasive water monitoring (no drilling), energy (Victron/BMS), solar, GPS — via onboard touchscreen and Cloud app

Embedded AI for real autonomy projection and anomaly diagnostics

Founder & CEO — DeepTech/IoT startup for nomadic living

Incubated at EuraTechnologies/Transalley; Stanford Innovation Program (2024)

Modular short-cycle production — in-house design, 3D-printed enclosures; managing a multidisciplinary team (electronics, mobile, UX/UI)

Commercial development — hardware kit (€590) + SaaS (€10/month); Victron, Truma, Webasto integrations

"Innovative company" award at Vanlife Expo Bordeaux 2025; 2026–2028 roadmap — European markets, boating, North America

2023  
European  
market



### Principal Engineer / Head of architecture

SCALE-UP · KUBERNETES · GITOPS · MICRO-SERVICES · DDD · CLOUD-NATIVE · PLATFORM ENGINEERING · CI/CD · MANAGEMENT · AWS · MOBILITY

Principal Engineer - tech expertise and leadership

Led microservices transformation using DDD to decompose the NodeJS monolith

Built the target cloud-native architecture (AWS, Kubernetes, CI/CD, GitOps)

Training around 12-factor principles, DevOps advocate, best practices

Mobility Framework — Platform Engineering team manager (6 senior engineers)

Built the Mobility Framework team from scratch to drive the transformation

Senior engineers spanning software architecture (dev), cloud architecture (ops), and project support

Drove cross-team coordination, tech stack evolution, and support

2021  
1 year  
Full remote  
(Paris)



## Bruno Medici

CTO / VP Eng  
Web architect  
Entrepreneur

contractor | permanent

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## EDUCATION

MSc Engineering - IMT Lille

ex Télécom Lille / 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)

Science baccalaureate



## Solutions Architect - Digital BU

CHANGE MANAGEMENT · MICRO-SERVICES · EVENT-DRIVEN · DDD · API-FIRST · CI/CD · DOCKER · MONGODB · MENTORING

2017  
2.5 years  
Paris  
(France)

### Supervised and guided development teams (30 devs)

- Mentored tech leads via weekly workshops and internal talks (architecture patterns, event-driven design, RabbitMQ...)
- Owned architecture decisions on day-to-day projects

### Defined the target micro-services architecture

- Led the migration to REST, micro-services, and domain-driven design patterns
- Raised management awareness of state-of-the-art patterns; handled tech choices, data modeling, and execution with teams

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

- Containerized projects with Docker, automated CI/CD pipelines; upskilled Q/A and production teams

### Bootstrapped and led reference teams on NodeJS/MongoDB

- Introduced the 1st NodeJS and MongoDB stack company-wide
- Full dev automation (build, test, deploy) with cross-team alignment — devs, testers, business, QA



## Replatforming to microservices architect

E-COMMERCE · REPLATFORMING · ARCHITECTURE · MICRO-SERVICES · CI/CD · DOCKER

2016  
1 year  
Paris  
(France)

### Defined the IT transformation roadmap and drove adoption

- On-boarded management to architecture principles through system mapping
- Mentored tech leads via weekly workshops; delivered internal talks on architecture patterns, RabbitMQ messaging and more

### Set up CI/CD on Docker and reference micro-services development

- Onboarded teams onto Docker; implemented backend-for-frontend — service aggregation and data/view separation
- Built reference micro-services (Ruby, Sinatra, MongoDB) via Strangler Fig — integrated into existing codebase for progressive migration



## Architect - VoD platform re-engineering

VOD · REPLATFORMING · MICRO-SERVICES · EVENT-DRIVEN · API-FIRST · HIGH TRAFFIC · CDN DELIVERY · PUSH MESSAGING · OPEN SOURCE

2014  
4 years  
Paris  
(France)

### Led the 18-month redesign of the VoD/replay platform

- Defined an API-first, micro-services architecture with RESTful APIs (Strangler Fig), orchestrated by our in-house scheduler
- Rationalized VoD workflows with domain-driven design, defined APIs, coached dev teams (PHP/Symfony2)
- Agile delivery — in production since Q2 2015, 300+ programs/day

### Designed the event-driven architecture (realtime notifications across platforms, AMQP)

- All Group platforms (Pluzz, CultureBox, FranceTV Info/Sports/Education) and partners (Molotov.tv, Orange)

### Lead architect on several strategic projects across the Group

- Architecture framework for Zoom (on-demand content recommendations)
- Managed architecture for the cross-products tagging system
- Led Connected TV services evolution and channel websites overhaul



## Architect - Video/VoD platform re-engineering

MEDIA & BROADCAST · VOD · REDESIGN · BUSINESS WORKFLOWS · TRANSCODING · STORAGE · R&D

2011  
1.5 years  
Paris  
(France)

### Defined target architecture and rationalized VoD platforms across the Group

- Proposed architecture rationalization for CanalSat, Canal+, CanalPlay Infinity and replay-tv (encoders, media provisioning)
- Mapped and modelled business processes for the entire VoD production stack, wrote technical foundations
- Introduced micro-services and APIs (ingest, transcoding, file provisioning, monitoring)

### Led the call for tenders for the workflow engine function

- Coordinated RFI and RFP with 12 international media providers (in English)
- Organized proofs-of-concept for the top-5 candidates, in close cooperation with CTOs and top management

### Managed the storage restructuring project within Diffusion (>1 PB)

- Contributed as lead architect to storage architecture, distribution and archiving
- Led project team, defined specifications and scalability strategy

## INTERNATIONAL

### Mobility

France, English-speaking countries, rest of world

### French

Mother tongue

### English

Fluent

### Italian

Basic

## INTERESTS

### Scuba diving

N2 PA40/PE60

TDI Deep-diver, Nitrox

### Private aviation

Ultra-light 3-axis pilot (BB), Private pilot license ongoing (LAPL/PPL)

### Photofactory

Web platform for artists and photo enthusiasts

RubyOnRails · MongoDB · MinIO · Docker

### LilleSansFil

Non-profit, president (2005)

Open metropolitan network (wifi), press and institutions relations

Embedded systems, mesh radio networking

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## Internet and security architect

BANKING · PLATFORM ARCHITECTURE · HIGH TRAFFIC · SECURITY · MOBILE INTERNET · LOAD BALANCING

2010  
1 year  
Lille (France)

Lead architect and technical expert on the Customer Internet platform evolution

- Managed infrastructure stack: firewalls, reverse proxies, load balancers, IPS (Redhat/OpenBSD)
- HTTP expertise, caching, filtering, L7 routing through Apache mod\_rewrite
- Introduced methods and tools for configuration versioning and deployment

Defined hosting architecture for Mobile Internet services (customers of 7 branches/banks)

- Implemented mobile-specific caching, protocols and compression
- Revived staging platform for better testing and team work (iso production)



## Architecture of onboard platform for TGV trains

RAIL INDUSTRY · ARCHITECTURE · AUDIT · CONNECTIVITY · ONBOARD SYSTEMS

2009  
6 months  
Paris  
(France)

Defined onboard and ground-train link technical architecture for TGV-Est trains

- Audited consortium architecture (Orange, Cap Gemini, Alstom, Eutelsat)
- Delivered optimization recommendations & new commercial opportunities
- Directed development of embedded-specific interfaces

Architected the onboard service platform and contributed to structuring the Bolloré-SNCF joint venture

- Flagship project of France's national investment plan — internet access onboard TGV-Est trains



## Independent Consultant - Solutions Architect

CONSULTING · IS ARCHITECTURE · HEALTHCARE · MEDIA & BROADCAST · NETWORK SECURITY · CDN DELIVERY · AUDIT · DEFENCE SECURITY · BANKING · CHANGE MANAGEMENT · E-COMMERCE · MICRO-SERVICES · IOT

2007  
today  
France

Reims & Chaumont Hospitals — IS Architect

- Designed a federated IS architecture for two hospitals — security expertise, workflows design
- Advised the project office, wrote calls for tender, monitored progress

FRANCE 24 — Audit and content-delivery providers selection

- Audited dependencies between business-critical systems and CDN providers
- Delivered hosting architecture optimization recommendations (CCTP)



SAFRAN / SNECMA — Network and security architect

- Network security expertise for the SNECMA-to-Group handover
- Reverse engineering and back-documentation of main topics
- Consolidated multi-site platforms; internet expertise: email, DNS, network security, web filtering



Société Générale — Hosting specialist, change management

- Re-integrated the Crédit du Nord branch integration
- Audited convergence of solutions and technologies; acquired leadership for integration projects, helped takeover for L2/L3 support teams
- Built a seamless ecosystem — transferred knowledge and documentation to all Société Générale teams



Ontex Digital Factory — Lead Architect

- Defined the next e-commerce subscription platform — led microservices architecture as foundations for business ambitions
- Provided architecture expertise on an innovative IoT project (hygiene market)



Doctena - Architecture expertise for inter-subsidary data exchanges

- Design and mentoring for event-driven architecture



## Web and medias strategy consultant

MEDIA & BROADCAST · LIVE STREAMING · PROJECT MANAGEMENT · DIGITAL STRATEGY

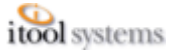
2007  
6 months  
Paris  
(France)

Led the 2007 French presidential election coverage online — 98k+ visitors across both ballots

- Led dedicated team (20 international bloggers, moderators, translators); live streaming, real-time results, audience SMS interaction, 5 newsroom webcams

Strategic advisory to the IT department — team setup, international web positioning, wrote RFP for new web infrastructure

- Media convergence strategy (broadcaster, internet, TV audience); launched internal projects (Cannes Festival, general elections)



## Co-founder and CTO of Itool Systems

CO-FOUNDER · SAAS · FINANCE & ACCOUNTING · MANAGEMENT · BUSINESS AWARD

2001

6 years

Lille (France)

### Associate and co-founder, board member

Built on Atomis (Lille, 2000) — SaaS management suite for accountants and SMEs (accounting, invoicing, document management); portals itool.net and itool.com

Innovation Award at the National Accountants Congress (2001)

### Architect and production owner

Deployed a robustness-oriented hosting cluster (20 servers over 4 sites) certified by IBM's SPC lab

99.96% avg availability, ranked nr1 by ip-label (May 2005)

### Development team manager (5)

Team leader for Itool Compta, Itool Facto, Itool Scan, Itool GED, APG Facto, press routing solutions, data-exchange hub with partners



## PROJECTS & OPENSOURCE

### Vanbox Smart home automation for converted recreational vehicles and yachts

START-UP · FRENCH TECH · INCUBATOR · INNOVATION · IOT · ESP32 · ELECTRONICS · FOUNDER · ENTREPRENEUR

### rbpm technical workflow manager to orchestrate RESTful microservices

RUBY · MICRO-SERVICE · OPENSOURCE · WORKFLOW MANAGEMENT · POC

### rest-ftp-daemon industrial-grade file transfer with a RESTful JSON API

RUBY · MICRO-SERVICE · OPENSOURCE · FILE TRANSFER · PRODUCTION-GRADE

Manages heavy files transfers on FTP, sFTP, FTPs S3, (media files)

Used in production by FranceTV since 2016 - transferring 300+ video files 2TB+ daily

### pushyd real-time events propagation service from internal broker to partners

RUBY · MICRO-SERVICE · OPENSOURCE · AMQP · PUSH MESSAGING

Used in production by FranceTV to propagate program events and metadata to VoD partners

### service-graph micro-service dependencies and graphs from GitLab repositories

RUBY · MICRO-SERVICE · OPENSOURCE · SERVICE MAP · POC