

SUMMARY

Solutions Architect with 15+ years designing, deploying, securing, scaling, and recovering production-grade cloud solutions in banking, public sector, healthcare, aerospace, and industry. Trusted advisor to CTOs, business sponsors, and design authorities: I turn business objectives into documented, governed architectures, anticipate technical and non-technical risks, and align customer, partner, and vendor teams through delivery. Hands-on with Azure, AWS, and GCP, Kubernetes, distributed systems and queues (Kafka), IAM and service-to-service security (OAuth2, mTLS, Zero Trust), observability, and GitOps. I build reusable reference solutions and PoCs, still write code daily (Java, Python, TypeScript), including agentic AI and LLM integration, and personally own a production platform end to end (mastersconf.com, 5,000+ users).

CORE STRENGTHS

- **Architecture Design & Deployment:** leads the design and delivery of secure, scalable, business-focused solutions; defines and documents the solution architecture (key decisions, requirements, constraints, risks, security considerations) with ADR, C4, and TAD; leads architecture governance, testing, quality assurance, and deployment readiness.
- **Risk Management & Delivery Governance:** anticipates technical and non-technical risks early; partners with Project Managers and Account teams to identify, communicate, mitigate, and govern risks; resolves escalations, oversees implementation against architectural standards, and drives change management when requirements or assumptions evolve.
- **Security by Design:** engages security practitioners early; least-privilege IAM, private networking, service-to-service security (mTLS, OAuth2/OIDC, JWT, Zero Trust, Pod Security), CVE management, regulatory compliance; secure-by-design / by-default / in-operations principles in line with Microsoft Secure Future Initiative (SFI).
- **Trusted Advisor & Stakeholder Alignment:** advisor to CTOs, business sponsors, POs/PMs, and Group Design Authorities; explains complex concepts in simple, evidence-based terms; challenges assumptions, resolves conflicts, and drives consensus across customer, partner, and vendor teams in ambiguous, multi-country environments.
- **Business Value & Requirements Traceability:** validates requirements with business stakeholders and keeps traceability between business objectives and solution components; balances customer priorities, business outcomes, innovation, security, and cost in the solution approach.
- **Practice Development & Reusable IP:** applies proven methodologies, patterns, and reference architectures (SAFe, Microservices, EDA, Hexagonal, Cloud-Native); builds reusable PoCs, technical foundations, and CI/CD software factories; uses automation and AI (agentic development, LLMs) to speed up delivery.
- **Thought Leadership & Mentoring:** leads virtual and international teams (France, USA, China, India, Egypt); mentors developers and architects; runs API-governance and architecture workshops; shares practices across internal and external communities.
- **Customer & Partner Technical Environment:** maps customer needs, priorities, constraints, and legacy landscapes (Core Banking, ERP, hospital IS, IoT); folds in feedback, industry trends, compliance, and frameworks; acts as customer advocate toward product and engineering teams.
- **Distributed Systems & Reliability:** microservices, event-driven architecture (Kafka), autoscaling, durable storage, observability, rolling deployments and rollback (GitOps); founder-operator of a production Kubernetes platform since 2022.

TECHNICAL SKILLS

- **Cloud & Networking:** Azure (AKS, APIM, Azure DevOps), AWS (EKS, EC2, S3, CloudWatch, IAM), GCP | VPC/VNET, subnets, NAT, L4/L7 load balancing, DNS, VPN, Network Policies
- **Containers & Orchestration:** Docker, Kubernetes (AKS, EKS, GKE), Helm, Service Mesh (Istio)
- **Infrastructure as Code, DevOps & CI/CD:** Terraform, Helm, Ansible | GitLab CI, GitHub Actions, Jenkins, Azure DevOps, ArgoCD (GitOps)
- **Observability & Reliability:** Prometheus, Grafana, CloudWatch, ELK | CVE vulnerability management, autoscaling, failure analysis (JVM, network, SQL)
- **Distributed Systems & Data:** Microservices, Event-Driven (Kafka), IBM MQ, JMS, Hexagonal, Cloud-Native | PostgreSQL, Oracle, MongoDB, Cassandra, Timestream, MDM, Data Vault
- **Security & IAM/CIAM:** OAuth2, OpenID Connect, JWT, mTLS, RBAC, Zero Trust, Pod Security, IAM/CIAM (B2E/B2C), WAF/DDoS, OWASP
- **APIs & Integration:** REST, OpenAPI/Swagger, API governance, API gateways (Azure APIM, Kong, Apigee, APISIX, Akamai CDN), SOAP/SOA, webhooks
- **Programming:** Java/JEE, Spring Boot, JPA/Hibernate, Python (FastAPI, Flask, Django), Node.js, TypeScript, React | Linux
- **AI & Agentic Architectures:** AI agent orchestration (LangChain, LlamaIndex, MCP), RAG pipelines, LLM integration with enterprise systems (Java/Quarkus, Python/FastAPI)
- **Methods & Documentation:** SAFe (Architect), Agile, ADR, C4 model, TAD, UML, architecture reviews, peer reviews

PROFESSIONAL EXPERIENCE

Lead Solutions Architect, AWS Cloud (Freelance)

Schneider Electric & StarCharge JV | Rueil-Malmaison, France (Grenoble, France; China) | Oct 2025 – Present

Context: Global industrial group, leader in energy management. Strategic IoT-to-AI/Data transformation for predictive maintenance of EV chargers, with international coordination (France, USA, China, India).

Role: Freelance Lead Solutions Architect reporting directly to the CTO; defined the end-to-end multi-tier solution strategy and coordinated international teams (architects, POs, DevOps).

- Defined the target AWS architecture (EKS, EC2, S3, NLB, CloudWatch, autoscaling, Security Groups) and presented it to the CTO and engineering leads to align on direction
- Designed an Istio service mesh for traffic management and microservices security
- Architected IoT integration via the OCPP protocol with Kafka event ingestion and Amazon Timestream storage
- Built proof-of-concepts (Java/JEE microservices, REST APIs exposed through APISIX) to prove feasibility and speed up decisions
- Established Infrastructure-as-Code (Terraform, Helm), GitOps delivery (ArgoCD), and observability (Prometheus, Grafana) with vulnerability management

Impact: Real-time monitoring platform for the EV-charger fleet, cutting anomaly-detection time and improving predictive maintenance.

Skills: AWS (EKS, EC2, S3, NLB, CloudWatch), Amazon Timestream, Istio, Terraform, Helm, ArgoCD, Prometheus, Grafana, Java/JEE, Spring Boot, Microservices, Event-Driven Architecture, Kafka, OCPP, IoT, APISIX, Metabase, BI/ETL

Lead Solutions Architect / Domain Architect

Caisse des Dépôts (Banque des Territoires) | Paris, France | Mar 2020 – Sep 2025

Context: Major public financial institution. Mission-critical banking platform for local-authority loan management in a highly regulated environment (European and French compliance). SAFe organization across 12 banking applications.

Role: Lead architect of a SAFe train, accountable for the architectural consistency of the Loan Management domain; trusted advisor to PO/PM, Dev, and DevOps teams, and the platform's representative to the CDC Group Design Authority.

- Defined Microservices and Event-Driven (Kafka) Cloud-Native architectures, and presented and defended them to stakeholders, from product teams up to the Group Design Authority
- Owned the integration strategy with Core Banking, ERP, and external systems (Banque de France, SFIL), designing secure APIs and exchanges (VPN, mTLS, JWT, OAuth2, OpenID)
- Drove migration to hybrid cloud (private + Azure) and legacy-application modernization
- Facilitated API-governance workshops and defined the MDM repository and Data Vault strategy
- Ensured compliance with European and French regulatory standards

Impact: Moved several banking applications to the cloud, with faster deployments, stronger exchange security, and regulatory compliance.

Skills: Azure (AKS, APIM), Hybrid Cloud, Kubernetes, Docker, Terraform, Helm, JEE, Spring, Kafka, Microservices, Event-Driven Architecture, API Governance, OAuth2, OpenID Connect, JWT, mTLS, VPN, PostgreSQL, MDM, Data Vault, Red Hat, VMware, SAFe

Solutions Architect / Team Lead

IBM | Paris, France | Jul 2016 – Mar 2020

Context: IBM consulting engagements for public-sector, healthcare, and airline clients: architecture design, technical leadership, and critical performance recovery.

Client: APHP – Assistance Publique – Hôpitaux de Paris (Patient Platform)

Europe's largest hospital group (39 hospitals, 100,000 staff). Strategic unified patient portal with strong health-data security and interoperability challenges. Team Lead of a 6-person team (5 developers + 1 DevOps); owned the technical architecture and interfaced directly with APHP business and IT teams.

- Designed a micro-frontend + microservices + Event-Driven architecture
- Integrated France Connect (OpenID) as the identity provider for secure citizen access
- Designed HL7 API integration with the existing hospital information systems
- Built a complete CI/CD software factory (Jenkins) and reusable technical foundations (Java/Spring Boot, React, Node.js)
- Impact: live patient portal used by millions of patients in the Paris region, with stronger health-data security

Client: Air France KLM (Orly)

Critical performance issues on runway-management applications after server relocations. Technical expert mandated to audit the infrastructure and propose an optimization solution.

- Ran a full infrastructure audit and root-cause analysis of latency; presented an optimization plan (server tuning, L1/L2 caches, network parameters)
- Refactored the J2EE/JPA/Hibernate application layer and drove a progressive rollout with continuous performance monitoring
- Impact: resolved critical performance issues and restored the reliability of the airport-management system

Client: French Ministry of Finance and Economy

Budget-management applications for the Finance Bill (PLF) votes at the National Assembly, with strong security and availability constraints. Solutions Architect and technical team lead for the data-management foundation.

- Defined the application architecture (Java/J2EE, Spring, Oracle, WebLogic) and designed a secure asynchronous import/export solution (JMS, Web Services)
- Built the data-management technical foundation (custom ORM), integrated EDM and document workflows, and implemented Jenkins CI/CD
- Impact: on-time delivery of a critical system used in the national budget process

Skills: Solution Architecture, Team Leadership, Microservices, Micro-frontends, Event-Driven Architecture, Java/J2EE, Spring Boot, JPA/Hibernate, React, Node.js, Docker, Kubernetes, Jenkins, CI/CD, OpenID Connect, France Connect, HL7, JMS, Web Services, Oracle, WebLogic, IBM WebSphere, Performance Tuning, Root-Cause Analysis

Technical Expert (Freelance)

Société Générale Corporate & Investment Banking (SGCIB) | Paris, France | Apr 2015 – Jun 2016

Context: Major investment bank. Critical mediation applications for interbank exchanges with Banque de France and external partners.

Role: Cross-functional technical expert and reference on integration and architecture topics; Level-3 support and team upskilling.

- Maintained and secured interbank-mediation applications
- Implemented exchange protocols (IBM MQ, SOAP/REST, SFTP, CFT)
- Authored and maintained Technical Architecture Documents (TAD)
- Diagnosed and resolved complex incidents (JVM tuning, WebSphere, SQL) and drove continuous quality improvement (SonarQube, OWASP, vulnerability scans)

Impact: Improved reliability and security of interbank exchanges.

Skills: J2EE, Spring, Hibernate, IBM MQ, SOAP, REST, SFTP, CFT, IBM WebSphere, Oracle, DB2, Jenkins, SonarQube, OWASP, JVM Tuning, Technical Architecture Documentation

Technical Expert (Freelance)

CNP Assurances | Paris, France | Sep 2014 – Apr 2015

Context: French leader in personal insurance. Transformation of development practices and migration to SOA architectures.

Role: Cross-functional Java/JEE expert; supported project teams and acted as guardian of design standards.

- Provided cross-functional Java/JEE expertise and industrialization guidance
- Led the migration to SOA architectures (REST/SOAP, Spring CXF)
- Authored technical recommendations on architecture, performance, and security

Impact: Standardized development practices and improved code quality.

Skills: J2EE, JPA/Hibernate, Spring Core/MVC, SOA, REST, SOAP, Spring CXF, Jenkins, Design Standards

Senior Development Engineer / Technical Consultant

IBM | Paris, France | 2009 – Sep 2014

Context: IBM consulting engagements for major accounts in the aerospace, energy, retail, and media sectors: technical architecture, design, and development of critical applications.

Client: Safran-Turbomeca (Éragny)

Global helicopter-engine manufacturer. Flight-data administration portal for engine analysis and maintenance. Technical architect and development lead; coordinated an offshore team (Egypt) and coached developers.

- Led technical analysis during the proposal phase (feasibility, UML modeling, estimates)
- Designed the SOA/ESB architecture (Contract-First, SOAP Web Services)
- Built the technical foundation (Struts 2, Spring 3, Spring Batch, JPA) and provided middleware and security expertise (IBM WebSphere, TAM/WebSEAL)
- Oversaw code reviews and continuous integration (SonarQube)
- Impact: operational portal for helicopter-engine analysis and maintenance, improving tracking processes

Clients: GDF Suez, GALEC (E. Leclerc), France Télévisions Interactive

Digital-transformation projects in energy, retail, and media. Development engineer and technical consultant responsible for the design and development of critical applications.

- Designed and developed business applications: web portals, transactional applications, back-office
- Implemented SOA/MVC architecture with UML modeling
- Developed and optimized batch data processing (Spring Batch) and tuned Oracle databases (JPA/Hibernate)

Skills: Java/JEE, SOA, ESB, SOAP Web Services, Struts 2, Spring, Spring Batch, JPA/Hibernate, JSF, Oracle, MySQL, IBM WebSphere, TAM/WebSEAL, JBoss, Jenkins, Maven, SonarQube, UML, Offshore Team Coordination

EDUCATION

Master's / DEA in Decision & Organization Computer Science | Paris-Dauphine University | Paris, France | 2008

CERTIFICATIONS

- **Microsoft Certified (2023):** Azure Administrator Associate (AZ-104), Azure Fundamentals (AZ-900)
- **Scaled Agile, SAFe (2022):** SAFe for Architects, SAFe for Agilists

LANGUAGES

French: Native / Bilingual | Arabic: Native / Bilingual | English: Professional working proficiency (written & spoken) | Italian: Intermediate

PROJECTS

Founder & Platform Owner, mastersconf.com

mastersconf.com | Paris, France | 2022 – Present

Scientific call-for-papers management platform I built and run end to end: design, deployment, security, scaling, and recovery. Adopted by 5 international conferences, with 5,000+ users.

Skills: JEE, React, Microservices, Docker, Kubernetes, OVH Cloud (IaaS), Production Operations