

CONTACT

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EXPERTISE

Cloud architecture — AWS, Azure, Google Cloud

Backend & microservices — Java, Kotlin, Spring

Event streaming & search — Kafka, OpenSearch

Observability & audit — tracing, audit trails

Applied AI — RAG, AI agents, MCP

Technical leadership & training

EDUCATION

PhD, Statistical Signal Processing & Bayesian Inference
Université Paris-Sud XI · L2S–CNRS · 2005

MSc, Automatic Control & Signal Processing
Université Paris-Sud · Supélec · 2002

Electrical & Electronics Engineer
INELEC, Algeria · 2001

LANGUAGES

French · **English** · **Spanish**

Arabic · **Kabyle**

Mahieddine M. Ichir

Cloud Architect & Software Engineer · PhD

Founder of Thina Technologies and co-author of the open-source platform Kockpit. Trained as a researcher in statistical signal processing, I have spent close to two decades designing, building and running production systems: event-driven microservices, multi-cloud infrastructure on AWS, Azure and Google Cloud, and the observability that keeps them reliable. Today I also build AI-agent solutions on Gemini and Google's Agent Platform.

Since 2007
shipping production software

3 clouds
AWS · Azure · Google Cloud

Open source
co-author of Kockpit

Trainer
Kafka · WildFly · Spring

EXPERIENCE

STIME · Groupement Les Mousquetaires
FEB 2025 — PRESENT

Cloud & AI engineering — IT subsidiary of the Les Mousquetaires retail group

- With the team, delivered a complete rework of the customer referential (RCU) on Azure.
- Developing a new AI-agent solution on Google Cloud, built on Google Agent Platform and Gemini.

`Azure · Google Cloud · Gemini · Agent Platform · AI agents`

Accor · Web Commerce Platform
OCT 2018 — PRESENT

Software architecture & backend development

- Designed and built REST and SOAP APIs and microservices for Accor's web commerce ecosystem (Jan 2020 – Apr 2021).
- Delivered serverless and containerised workloads on AWS: Lambda, RDS, AWS Batch, ECS, EKS.
- Earlier mission (Oct 2018 – Jan 2019): Spring Boot APIs on Cassandra, infrastructure with Terraform, SQS and Lambda.

`Spring Boot · Cassandra · AWS · Terraform · REST · SOAP`

Maileva · Docaposte (La Poste group)
JAN 2016 — FEB 2025

Technical leader · software architecture & backend development

- Technical lead and architect for the digital-mail platform's APIs and microservices.
- Built the event-driven backbone on Kafka, with Elasticsearch search and OAuth2-secured APIs.
- Containerised and deployed services on Docker, Kubernetes and Mesos / DC/OS.

`Spring Boot · Kafka · Elasticsearch · Kubernetes · Mesos · OAuth2 · MongoDB · MariaDB`

Maileva · Docaposte
OCT 2012 — DEC 2015

Java JEE development

- Backend services and RESTful APIs on JEE 5/7, EJB and MDB/JMS, on JBoss and WildFly.
- Business rules and workflows with Drools and jBPM; early adoption of Docker.

`JEE · JBoss · WildFly · JMS · Drools · jBPM · Docker`

TECH STACK

Languages & frameworks

Java · Kotlin · Spring Boot · Spring Security · Spring AI · JEE · Go · Node.js

Front end & mobile

React · Angular · Android

Cloud & infrastructure

AWS · Azure · Google Cloud · Terraform · Docker · Kubernetes · Helm · DC/OS

Messaging & data

Kafka · Kafka Streams · Kinesis · Event Hubs · OpenSearch · Elasticsearch · Cassandra · MongoDB · PostgreSQL · MySQL · SQL Server

Servers & security

WildFly · JBoss · Tomcat · WebSphere · Keycloak · OAuth2

AI

Gemini · Vertex AI · Google ADK · Amazon Bedrock · LangChain4j · pgvector · MCP · TensorFlow

TRAINING DELIVERED

Apache Kafka — architecture, streams, operations

WildFly — administration & clustering

Spring & JEE — microservices

CERTIFICATIONS

Neural Networks and Deep Learning
Coursera · 2020

TensorFlow for AI, ML & Deep Learning
Coursera · 2020

INTERESTS

Tennis, karate, basketball · piano (trying hard) · technical books and crime novels

Mahieddine M. Ichir

Cloud Architect & Software Engineer · PhD

ENTREPRENEURSHIP & OPEN SOURCE

Thina Technologies — FOUNDER & PRESIDENT

Independent engineering company (SAS) · Massy, France

- Cloud architecture, backend engineering, observability and applied-AI engagements for large French companies.
- Technical training for development and operations teams.

Kockpit — CO-AUTHOR · APACHE-2.0

Instrumentation for what your services actually do.

Open-source engineering platform for Spring Boot systems: audits every call services make in and out, changes features and configuration without redeploying, and brings it all into one web console. Co-created with Cyril Joui (Kiss); I remain one of its main contributors.

- → Audit trail with masking of sensitive fields
- → Caches, instance health & manifests
- → MCP server on Spring AI for AI assistants
- → Feature flags & dynamic configuration
- → Rule engine: DSL, Maven plugin, designer
- → Runs on-prem, Azure, AWS, Kubernetes

Spring Boot 4 · Java 21 · Kafka · Event Hubs · Kinesis · OpenSearch · React · Helm — kockpit.org · github.com/mahieddine-ichir/kockpit

EXPERIENCE (CONTINUED)

Mobile Print Services — AUG 2015 — DEC 2018

Head of R&D · venture associate

- Designed and built a cloud microservices solution for mobile public printing: backend, web console and Android app.

Spring Boot · AWS (EC2, RDS, EBS) · AngularJS · Android

Union Financière de France — JUL 2011 — SEP 2012

Development & architecture

- Eclipse RCP and JEE applications on WebSphere, integrated through SOAP web services.

Ricoh France — JUL 2010 — JUL 2011

Java development

- Embedded Java (1.4) development for Ricoh devices.

Maileva — JUN 2007 — JUN 2010

C & Linux development

- Systems and backend development in C on Linux.