EA

El Mehdi AREZKI

🚀 Lead Software Engineer & System Architect

📍 Île-de-France, France

✉️

Online CV: https://earezki.com/about

arezki.elmehdi@gmail.com

💼

LinkedIn

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GitHub

📝

Blog

💡

StackOverflow

🧑‍💻 About

Passionate about software architecture and technical innovation, I'm a Lead Software Engineer **since 2017 professionally** and **since 2012 personally** building large-scale distributed backend solutions.

🎯 **My Mission**: Transform complex ideas into robust, scalable, and performant

systems that make a real difference.

💡 **What Sets Me Apart**:

- Technical leadership of international teams
- Expertise in cloud-native architecture and microservices
- Passion for code quality and best practices
- Ability to bridge the gap between technical and business

💼 Professional Experience

Company A (European Banking Group) 📍 Île-de-France

🎖️ **Lead Software Engineer**

📅 **04-2023 – Present**

🏆 **Key Achievements**:

- 🚀 **Large-scale Project Leadership**: Led development of next-gen banking application (v3), built from scratch to modernize legacy system
- 🌍 **International Leadership**: Daily coordination of distributed teams (France & Poland) including developers, Business Analysts, and Product Owners
- 📋 **Technical Excellence**: Technical spec writing, active participation in business rule definition, and functional workshop facilitation
- 🔧 **DevOps & Infrastructure**: Complete CI/CD pipeline setup (Jenkins, ArgoCD) and Kubernetes orchestration
- 🔬 **Innovation & R&D**: Comparative POCs (Redis vs Apache Ignite, Oracle vs MongoDB, audit solutions)
- 👨‍💻 **Mentorship**: Technical coaching, code reviews, and team best practices definition
- ⚡ **Performance**: Performance optimization and proactive production incident management

Technologies: Java 21 • Spring Boot • OpenAPI • Redis • Apache Ignite • Oracle • MongoDB • Jenkins • ArgoCD • Kubernetes • RabbitMQ • IBM MQ • Docker • Python • FastAPI

🎯 **Senior Software Engineer**

📅 **06-2021 – 04-2023**

🏆 **Key Achievements**:

- 🏗️ **From-scratch Architecture**: Design and implementation of modern banking platform application architecture
- 🏦 **Regulatory Project**: Development of regulatory reporting application for Banque de France, replacing legacy COBOL system
- 🔄 **CI/CD Excellence**: GitLab CI pipeline implementation, deployment automation

- 🛡️ **Cross-cutting Components**: Development of audit, authorization, security, and OAuth2 authentication modules
- ✅ **Quality Assurance**: Technical and functional quality guardian, team mentoring

Technologies: Java 11 • Spring Boot • DDD • Hexagonal Architecture • Docker • Kubernetes • PostgreSQL • GitLab CI • OAuth2

Company B (European Banking Group) 📍 Île-de-France

🎯 **Senior Software Engineer**

📅 **07-2019 – 06-2021**

🏆 **Key Achievements**:

- 🔬 **R&D & Innovation**: Technical POC study and execution for new strategic projects
- 🏗️ **Microservices Architecture**: Complete microservices infrastructure design and implementation
- 🚢 **K8s Migration**: Successful migration from Docker Swarm to Kubernetes
- 🔐 **Security**: OAuth2 server setup and electronic signature service
- ⚡ **Optimization**: Significant application and SQL performance improvements, APM integration
- 🧪 **Load Testing**: Performance test development with Locust (Python)
- 👨‍🏫 **Training**: Junior and intern coaching and training

Technologies: Java 8 • Spring Boot • Docker • Kubernetes • PostgreSQL • RabbitMQ • Jenkins • ReactJS • ELK • Python

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Company C (International Online Bank) 📍 Paris

💻 **Java Developer/Designer**

📅 **09-2018 – 06-2019**

🏆 **Key Achievements**:

- 📋 **Full Cycle Management**: Change Request specification to acceptance testing
- 🏦 **PSD2 APIs**: Analysis and development of PSD2 APIs (SCA, AIS, PIS)
- 🔐 **Strong Authentication**: SCA module implementation and fraud detection

system

- 🎨 **Front-end**: Polymer 2 component development and REST/SOAP integration
- 🎯 **Technical Expertise**: Active participation in technical choices and code
reviews

Technologies: Java 8 • Spring MVC • Spring Boot • JAX-RS • AngularJS • Polymer 2 • Jenkins

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Company D (International E-Commerce) 📍 Rabat

💻 **Java Developer/Designer**

📅 **02-2017 – 09-2018**

🏆 **Key Achievements**:

- 🛒 **Large-scale E-commerce**: Development and estimation of new features
- 🔄 **Modernization**: Migration from monolith to microservices architecture
- 🛍️ **New Microservice**: From-scratch shopping cart management service
development
- 🏗️ **Technical Design**: Design and implementation with continuous
integration
- 👨‍🏫 **Mentoring**: Code reviews and new developer training

Technologies: Java 8 • SAP Hybris • Spring Boot • AngularJS • Docker • Jenkins • PostgreSQL

🚀 Personal Projects

🤖 Stock Weather AI

View Code →

AI-powered financial market analysis application. Uses machine learning to
predict market trends and provide real-time insights.

Python

LangChain

AI/ML

Finance

☁️ AltCloud

View Code →

Alternative secure cloud storage solution. Distributed architecture with

end-to-end encryption for maximum confidentiality.

Flutter

Cloud

Storage

Security

🛒 CartsAPI

View Code →

Modern RESTful API for e-commerce cart management. Microservices architecture with high availability and scalability.

Java

Quarkus

E-Commerce

🛠️ Technical Skills

🏗️ Software Architecture & Design

🎨 **Paradigms:** Microservices • Domain-Driven Design (DDD) • Event-Driven Architecture • API-First • Hexagonal Architecture

💻 Languages

Java 25

Python

TypeScript

JavaScript

🚀 Frameworks

Spring Boot

FastAPI

LangChain

Apache Camel

React

Hibernate

☁️ Cloud Native & DevOps

🎼 **Orchestration:** Kubernetes • Docker • Docker Swarm

🔄 CI/CD

Jenkins

GitLab CI

ArgoCD

GitHub Actions

📦 Methodologies

Infrastructure as Code

GitOps

Continuous Delivery

💾 Data & Messaging Systems

🗄️ **Databases:** PostgreSQL • Oracle • MongoDB • S3

⚡ Caching

Redis

Apache Ignite

✉️ Message Queues

RabbitMQ

Apache Kafka

IBM MQ

🎯 Leadership & Quality

👥 **Leadership:** Team Management • Technical Mentoring • Agile Planning • Stakeholder Coordination

✅ Quality

Performance Testing (Locust)

E2E Testing (Cucumber)

Code Review

TDD

🎓 Functional Skills

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E-Commerce

Product catalog management

Delivery systems

Recurring payments

Omnichannel experience

🏦

Banking

PSD2: SCA, AIS, PIS, CAF

Wire transfers

Fraud detection

Structured products

Compliance: KYC, AML, ETP, CTP

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Document Management

Document management

Audit systems

Advanced versioning

Complete traceability

🌍 Languages

🇫🇷 French

🇬🇧 English