

ALA BEN KHALIFA

Software Architect | Tech Lead (Backend & Microservices)

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PROFESSIONAL SUMMARY

Software Architect and Technical Leader with 6+ years of experience designing and scaling cloud-native platforms across AWS and Azure. CTO & Co-Founder of a DOOH advertising startup serving enterprise clients such as BYD and Carrefour. Leading cloud migration and API platform initiatives for Mercedes-Benz at MaibornWolff. Previously led teams for Rolls-Royce. University instructor in Microservices Architecture and Spring Framework.

CERTIFICATIONS

- AWS Solutions Architect – Associate (SAA-C03)
- Microsoft Azure Developer Associate (AZ-204)
- VMware Spring Certified Professional 2024 v2
- iSAQB CPSA-FL – Software Architecture Foundation
- Professional Scrum Master I (PSM I)

CORE COMPETENCIES

Cloud Architecture: AWS (ECS Fargate, RDS, ElastiCache, S3, CloudFront, ALB, ECR, NAT Gateway, Secrets Manager) · Azure (API Management, App Services, Azure AD)

Infrastructure & DevOps: Terraform (IaC) · GitHub Actions CI/CD · Docker · Kubernetes · SonarQube

Backend & Architecture: Microservices · Spring Boot · Spring Security · Spring Data · NestJS · .NET/C# · Event-driven · REST APIs · WebSocket · OAuth2 · MQTT · RabbitMQ · DDD

Data & Languages: PostgreSQL · MongoDB · Redis · Firebase | Java · Kotlin · TypeScript · C#

AI & Emerging Tech: RAG (Retrieval-Augmented Generation) · AI-assisted agentic development · LLM integration

Leadership: Team management · Mentoring · Architecture decisions · Cross-functional coordination · Agile/Scrum

PROFESSIONAL EXPERIENCE

Chief Technology Officer (CTO) & Co-Founder

October 2025 – Present

VERSE — Digital Out-of-Home Advertising Platform · Tunis, Tunisia

- Sole technical owner responsible for all architecture decisions, backend development, cloud infrastructure, DevOps, and platform reliability — serving enterprise clients including BYD, Tunisie Telecom, and Carrefour
- Architected and built from scratch a full-stack DOOH advertising platform displaying targeted ads on venue screens across restaurants, cafes, and bars, with planned UK market expansion
- Designed and deployed the entire AWS cloud infrastructure single-handedly, with full infrastructure-as-code using Terraform and automated CI/CD pipelines via GitHub Actions

Tech: AWS (ECS Fargate, RDS, ElastiCache, S3, CloudFront, ALB, ECR) · Terraform · GitHub Actions · PostgreSQL · Redis

Lead Software Engineer

October 2024 – Present

MaibornWolff GmbH — German Technology Consultancy · Tunis, Tunisia

Mercedes-Benz — PlaTo Migration to MO360

- Led the migration of a production web application from standard Azure infrastructure to MO360, Mercedes-Benz's proprietary Azure-based PaaS platform
- Analyzed existing system architecture, identified technical risks, and designed a phased migration strategy ensuring minimal downtime and business continuity
- Applied cloud-native architectural patterns to improve scalability, reliability, and cost-efficiency

Husky Injection Molding — Cloud Architecture & Performance

- Reverse-engineered existing Azure cloud infrastructure and codified it using Terraform (Infrastructure as Code)
- Designed and executed load testing strategies to identify system bottlenecks, delivering strategic recommendations for infrastructure scalability
- Designed and implemented an API integration architecture using Azure API Management to synchronize factory data with internal systems

Tech: Azure · Terraform · Azure API Management · .NET/C# · DDD · Load Testing · Cloud Migration

Senior Software Engineer

October 2022 – October 2024

MaibornWolff GmbH · Tunis, Tunisia

Rolls-Royce Motor Cars — Whispers Platform

- Grew into a leadership role, managing a team of 4 engineers (3 Seniors + 1 Lead) on Whispers, an exclusive digital platform connecting Rolls-Royce customers and dealers through iOS and Android applications
- Owned architecture decisions across 10 microservices built with Spring Boot (Java/Kotlin), following event-driven architecture principles
- Deployed and operated services on AWS with Kubernetes for container orchestration, with MQTT-based real-time messaging
- Drove CI/CD best practices, code quality via SonarQube, and mentored team members fostering a growth-oriented engineering culture

Tech: Spring Boot · Kotlin · Java · Microservices · AWS · Kubernetes · Docker · MQTT · PostgreSQL · Firebase · SonarQube

Software Engineer

October 2020 – October 2022

MaibornWolff GmbH · Tunis, Tunisia

- Developed microservices backend and native Android (Kotlin, Jetpack Compose) / iOS (Swift, SwiftUI) apps for Rolls-Royce Whispers platform; migrated legacy Drupal backend to Spring Boot with MQTT real-time messaging

Tech: Spring Boot · Java · Kotlin · Swift · Android · iOS · Docker · Kubernetes · MQTT · PostgreSQL · Firebase

Software Engineer

February 2019 – October 2020

Talan Tunisie · Tunis, Tunisia

- Migrated Java EE/JSF monolith to Spring Boot/Angular microservices with RabbitMQ async messaging; developed financial reporting and analytics modules for Byblos enterprise ERP

Tech: Spring Boot · Angular · Java EE · RabbitMQ · PostgreSQL · Microservices

EDUCATION

Software Engineering Diploma

2016 – 2019

ESPRIT — Private Higher School of Engineering and Technology, Tunis

Bachelor's Degree, Electronics & Communications Engineering

2012 – 2016

ISIMM — High Institute of Informatics and Mathematics, Monastir

ADDITIONAL

Teaching: Microservices Architecture (SOA) & Spring Framework Trainer at ENSIT — National Higher School of Engineering of Tunis (September 2022 – Present)

Languages: Arabic (Native) · French (Professional) · English (Professional)

Interests: Cloud architecture, AI-assisted development, smart home automation, automotive technology