Hamdi BOUGATTAYA

SENIOR FULL STACK JAVA DEVELOPER & KAFKA SPECIALIST

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Professional Summary

Experienced Senior Full Stack Java Developer & Kafka Specialist with expertise in building scalable microservices, real-time data streaming solutions, and cloud-native architectures. Strong background in Spring Boot, Kafka, Kubernetes, and DevOps practices. Passionate about leveraging AI and cloud technologies to optimize large-scale distributed systems.

Education

University of Aix-Marseille, BSc of Computer Science and Mathematics	2018 – 2021
CNED, Paris, Diploma of Advanced Technician in Computer Science	2016 – 2018
University of Pisa, BSc of Computer Science (1st year)	2015 – 2016

Professional Experience

💼 **Tahakom**, Senior Software Developer   Riyadh, Saudi Arabia
Feb 2025 – present

» *Customer: Tahakom*

Project › *Safety & Security Platform System:*

- Developed a comprehensive multi-platform safety and security management system with mobile (Flutter) and web (Angular) interfaces
- Built FastAPI backend with SQL Server database, Azure AD authentication, and Firebase push notifications
- Implemented location-based tracking, inspection workflows, and task management features
- Created PDF report generation and multi-language support (English/Arabic)

≋ **Technologies:** *Flutter - Angular - FastAPI - Python - SQL Server - SQLAlchemy - Alembic - Azure AD (MSAL) - Firebase - AWS S3 - Docker - GitLab CI/CD*

» *Customer: Tahakom*

Project › *Vehicle Check Mobile Application:*

- Built Flutter-based fleet management solution for vehicle check-in/check-out operations
- Developed vehicle inventory management with search, filters, and photo-documented safety inspections
- Implemented driver assignment tracking and comprehensive reporting features
- Built offline-first architecture with automatic sync and Azure AD authentication
- Delivered Arabic/English localization support

≋ **Technologies:** *Flutter - Dart - Riverpod - GoRouter - Flutter AppAuth - Flutter Secure Storage*

» *Customer: Tahakom*

Project › *Multi-format Document Merger:*

- Developed full-stack web application for converting and merging 12+ file formats into PDF documents
- Built React frontend with drag-and-drop file upload and FastAPI backend with async processing

- Integrated Gotenberg service for document conversion (LibreOffice + Chromium)

≋ Technologies: *React - TypeScript - Vite - TailwindCSS - FastAPI - Python - pikepdf - Gotenberg - Docker - Docker Compose - Nginx*

💼 Extrared Srl, Senior Software Developer

Pontedera, Italy
Jan 2022 – Jan 2025

⏩ *Customer: Azienda Unità Sanitaria Locale della Bologna (AUSL Bologna)*

Project ❯ *Healthcare APIs and Microservices for mobile apps:*

- Led the backend architecture and system design, ensuring scalability, security, and maintainability.
- Designed and implemented microservices architecture to power AUSL Bologna's healthcare mobile applications.
- Developed RESTful APIs for seamless communication between mobile apps, internal systems, and third-party services.
- Integrated third-party healthcare services, including identity management, external APIs, and patient data platforms.
- Built the entire CI/CD pipeline from scratch, leveraging GitLab CI/CD and ArgoCD for automated deployments on OpenShift.
- Enforced code quality and security standards, incorporating SonarQube and automated testing into the CI/CD workflow.

≋ Technologies: *Java J2EE - Spring Framework - OpenShift - Jacoco - SonarQube - Docker - Kubernetes - GitLab CI/CD - ArgoCD - Keycloak - Prometheus*

⏩ *Customer: Autostrade per l'Italia S.p.A*

Project ❯ *IoT data collection, processing and enrichment:*

- Data collection using Kafka connectors
- Developed several Kafka Streams applications to process and enrich data
- Implemented automated testing with Robot Framework, increasing test coverage and minimizing manual QA efforts
- Managed CI/CD process

≋ Technologies: *Java J2EE - Spring Framework - Kafka - Kafka Streams - Kafka Connectors - Confluent - Elasticsearch - OpenShift - AWS (EKS, EC2, S3, Athena) - Redis - Kibana - Jacoco - Robot Framework - Docker - Kubernetes - Jenkins - SonarQube - ArgoCD - Urbancode Deploy*

⏩ *Customer: Fendi*

Project ❯ *Fendi Events Manager:*

- Developed an event management platform, improving client booking experience

≋ Technologies: *Java J2EE - Spring Framework - Postgresql - React - Redux Toolkit - MUI - ViteJS - Swagger - Nginx*

⏩ *Customer: Coopservice*

Project ❯ *Kimer@ mobile app:*

- Developed an asset management mobile app

≋ Technologies: *Java - Spring Framework - React Native - Keycloak - Firebase - Push notifications - Fastlane*

💼 Extracube Srl, Senior Software Developer

Pontedera, Italy
July 2019 – Dec 2021

⏩ *Customer: Extra GROUP*

Project ❯ *Jira Expense Plugin:*

- Developed a Jira plugin to manage employees expense reports

≋ Technologies: *Java - Spring Framework - Postgresql - React - Redux Toolkit - MUI - Atlassian UI kit - Atlassian Forge - Openshift - Tekton*

⏩ *Customer: Banca Intesa Sanpaolo*

Project ❯ *Roky, Shareholders:*

- Developed banking and financial microservices
- Ensured quality with unit tests and Jacoco

≋ Technologies: *Java - Spring Framework (Boot, Batch) - Openshift - Keycloak - Kafka - DB2 - Oracle DB - Jacoco - JUnit - Jenkins*

💼 Municipia Spa (ex Kiunsys Srl), Software Developer
Pisa, Italy
Dec 2017 – July 2019

≫ *Customer: T-SYSTEMS Deutsche Telekom*

Project ❯ *Park and Joy:*

- Developed REST APIs for a mobile application (Park and Joy)
- Developed a dashboard to track parking statistics
- Ensured quality with unit tests
- Improved existing code using SOLID design principles

≋ Technologies: *Java - Spring Framework - JSP/Servlet - MySQL - AWS - Docker - Jenkins - CircleCI - Jira - Confluence - Angular*

💼 Daxo Mobile and RFID, Web Developer
Pisa, Italy
Sept 2017 – Dec 2017

≫ *Customer: FUTURA and UC CONVERTING*

Project ❯ *CMMS (Computerized Maintenance Management System):*

- Developed a computerized maintenance management system

≋ Technologies: *Java - Spring Framework - Postgresql - AWS - Docker - InfluxDB - Prometheus - Grafana - Angular*

💼 Microzed, Software Developer Intern
Megrine, Tunisia
Jan 2017 – June 2017

≫ *Customer: BOMI*

Project ❯ *CRM (Customer Relationship Management):*

- Modified existing software to detect and correct errors, improve performance, and upgrade interfaces
- Prepared reports on specifications and activities for each project

≋ Technologies: *Visual Studio - .NET - C# - VB.NET*

Certifications

- **Google Cloud Professional Cloud Architect (ID: 704c44155d784a53956e66a52e72a3d4)** ↗
- **Google Cloud Associate Cloud Engineer (ID: 922f565d6af546a6b9c131668f1295e0)** ↗
- **Red Hat Certified Cloud-native Developer (ID: 240-218-073)** ↗

Skills

- **Programming Languages:** Java / Kotlin - JavaScript/TypeScript - Python - SQL - Rust - Go - Swift - C / C++ / C# - VB.NET
- **Frameworks & Libraries:** Spring Framework - React / React Native - Redux Toolkit - Flutter - Angular - Apache Kafka (Streams, Connectors) - Apache Camel
- **Databases:** Postgresql - MySQL - DB2 - Oracle DB - MongoDB - Redis - InfluxDB
- **Cloud & DevOps:** AWS (EKS, EC2, S3, Athena ...) - Azure - GCP - Confluent - Firebase - Supabase - Docker - Kubernetes - OpenShift - Tekton - Jenkins - CircleCI - ArgoCD - Urbancode Deploy - SonarQube - Fastlane - Git
- **Monitoring & Testing:** Elasticsearch - Kibana - Opensearch - Prometheus - Grafana - Jacoco - Robot Framework - JUnit - Mockito - Test Containers
- **Additional Tools:** Keycloak - Push notifications - Swagger - Nginx - Atlassian Suite (Jira, Confluence, Forge)
- **Methodologies:** Agile - Scrum - CI/CD

Languages

- **Arabic** (Native) - **French** (Bilingual) - **English** (Professional) - **Italian** (Professional)