

Mohamed Salah BDIoui



Senior Software Engineer

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French Citizen

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Senior Software Engineer with 8+ years of experience designing scalable software systems, optimization-oriented solutions and data-driven applications. Expert in Kotlin, Jetpack Compose, MVI, MVVM, Clean Architecture, TDD, CI/CD. Strong background in logistics platforms, route optimization, operational workflow analysis and software validation within complex industrial environments. Skilled in Agile, Scrum, JIRA, Git, and AI-assisted development.

PROFESSIONAL EXPERIENCE

Trainer & Instructor

Feb. 2026 — Aug. 2026

Dyma

Paris, France

- Design and delivery of complete Android development training courses, from concept to store publication.
- Creation of course materials, tutorial videos, and project guides covering all phases: architecture, technology choices, implementation, and deployment.
- Utilization of AI agents (Cursor, Claude, WindSurf, Cline, Codex) to improve code quality and reviews.
- Result: 50 Android projects fully monitored by AI, with scoring algorithms and improvement reports.

Senior Android Consultant

Jun. 2025 — Jan. 2026

Post Luxembourg

Luxembourg

- Development of a banking application (Eboo Post Luxembourg).
- Technical leadership: bug fixing, writing functional and technical specifications, Android Tech Lead role (technical choices, task breakdown, code review).
- Implementation of MVI architecture, coding rules (Detekt, Danger), and a complete CI/CD pipeline with Bitrise.
- Results: MVP delivered in 3 months (intern AI reviewers 24/7), test coverage at 70%, performance and stress tests conducted, complete project documentation.

Software Developer Consultant

Jan. 2023 — Jun. 2025

Elis Paris

Paris, France

- Logistics Platform Engineering:** Developed features for an international logistics platform used for route planning, inventory management and field operations.
- Route Optimization:** Implemented route optimisation features using HERE SDK while considering vehicle and location constraints.
- Operational Workflow Analysis:** Worked with business teams to improve logistics processes and operational efficiency.
- Event Processing & Synchronisation:** Implemented real-time data synchronisation for inventory updates and field activity tracking.
- Performance Investigation:** Investigated performance issues on Zebra and Chainway devices and improved application reliability.
- International Deployments:** Collaborated with product owners and operational stakeholders to validate solutions and support deployments in Brazil, Canada and multiple European countries.

Software Developer Consultant

Jun. 2022 — Dec. 2022

Safello Stockholm

Stockholm, Sweden

- Data Aggregation Pipelines:** Integrated data from multiple third-party APIs and external services.
- Reactive Stream Modeling:** Developed reliable data processing workflows able to handle high traffic and temporary network failures.
- Technical Documentation:** Produced technical documentation to support maintenance and knowledge sharing.

SKILLS

LANGUAGES

Kotlin Java Python (Working Knowledge) SQL GraphQL

UI & DECLARATIVE

Jetpack Compose Material 3 ViewBinding ConstraintLayout

ARCHITECTURE

MVI MVVM Clean Architecture SOLID

CORE ANDROID

Coroutines Flow ViewModel Room Hilt Koin WorkManager RxJava

CI/CD & QUALITY

Bitrise GitLab CI SonarQube Detekt TDD JUnit GitHub Actions MockK

SOFTWARE ENGINEERING

OOP SOLID Design Patterns TDD

PROBLEM SOLVING & ANALYSIS

Problem Solving System Analysis Performance Optimization Technical Documentation

LOGISTICS SYSTEMS

HERE SDK Route Optimization Geofencing Fleet Management

TOOLS

Jira Redmine Postman Figma Charles Proxy

MAPS & INTEGRATIONS

Here SDK (V3/V4) Geofencing Zebra PDA APIs NFC / BLE

EDUCATION

Engineering Degree (Computer Science (Software Engineering))

UTBM

2014-09 — 2018-10

Bachelor Degree in Computer Science

University of Monastir

2011-09 — 2013-07

Presales Engineer

Dec. 2021 — Jun. 2022

Klanik Marseille

Marseille, France

- Led presales workshops for web and mobile projects, translating client needs into functional scopes, risk assessments, and accurate effort estimations.
- Designed and prototyped front-end solutions using React and React Native, demonstrating feasibility and accelerating contract closures.
- Collaborated with delivery teams to ensure proposed architectures aligned with company tech standards (clean architecture, CI/CD, testing strategies).
- Authored commercial proposals and technical annexes used by the sales team to win new accounts.

Mobile Developer (Native & Hybrid)

Sept. 2020 — Nov. 2021

Infostrates Marseille

Marseille, France

- **System Modernization:** Led a major architecture modernization initiative, migrating legacy systems to modern reactive frameworks and improving application stability.
- **API Optimization:** Leveraged GraphQL for high-efficiency data fetching and used Charles Proxy for testing and validating network payloads.

Software Engineer Consultant

Nov. 2019 — Feb. 2020

SFR Grenoble

Grenoble, France

- Developed core features for the GENT8TV set-top box application, displaying live and recorded TV programmes with advanced filtering.
- Integrated playback control fragments into the main video stream, enabling rewind, fast-forward, and 'continue watching' functionality.
- Performed a full UI overhaul, migrating legacy layouts to ConstraintLayout and ViewBinding for a more fluid interface.

Software Engineer

Sept. 2017 — Jul. 2019

Orange Grenoble

Grenoble, France

- **Applied Research & AI:** Maintained systems for industrial process digitalization and smart buildings, integrating a DialogFlow conversational AI chatbot into technical workflows.
- **Institutional Deliverables:** Participated in R&D activities, technical studies and feasibility assessments for smart building projects.

LANGUAGES

French

Native

English

Full Professional