

Abdelmadjid Benathmane

Mobile (Android/iOS/KMP) & Full-Stack Engineer

- **Location:** Sidi Bel Abbès, Algeria | Open to Global Opportunities
- **Work Eligibility:** Computer Science Master's Degree | Visa Fast-Track Ready
- **Contact:** [+213 659 61 67 26](tel:+213659616726) | abdelmadjid.dev@gmail.com
- **Profiles:** linkedin.com/in/abenathmane | github.com/abdelmadjid-dev | benathmane.com

SKILLS

- **Mobile (Android & iOS):** Java, Kotlin, Swift, Jetpack Compose, SwiftUI, Kotlin Multiplatform (KMP), RxJava, Hilt, Room, Coroutines, Flow, Mobile CI/CD.
- **Frontend & Web:** JavaScript, TypeScript, Angular, Vue.js, HTML/CSS, Micro-frontends.
- **Backend & Systems:** Spring Boot, Node.js, REST APIs, GraphQL, gRPC, Microservices, Python, FastAPI.
- **Databases & Cloud:** PostgreSQL, MySQL, Redis, Firebase, GCP, Docker, Git (GitHub/GitLab), CI/CD (GitLab CI, GitHub Actions), Gradle.
- **Languages:** English (Fluent), French (Fluent), German (A2), Arabic (Native).

PROFESSIONAL WORK EXPERIENCE

Smart Prints KSA | Remote

Software Developer | **Dec 2024 - Present**

- Engineered cross-platform SDKs using **Java**, **XML**, and **JAXB** for UBL 2.1 electronic invoicing, fulfilling mandatory tax compliance across retail POS deployments.
- Integrated NFC POS payment terminals, self-service kiosks, MDB vending hardware, and USB peripherals using **Java** and **Android SDK**.
- Applied **Clean Architecture**, **DDD**, **Reactive Programming**, and **TDD** to refactor legacy POS applications, reducing maintenance costs and device resource load.
- Developed an **Android Accessibility Service** and custom **Manager App** using **Java** and **Android SDK** for zero-touch remote deployment.

FoxBase GmbH | Duesseldorf, Germany (On-site)

Web Developer | **May 2024 - July 2024**

- Delivered vertical slice features using **Angular**, **Vue.js**, **Node.js**, **TypeScript**, and **GraphQL** for the Digitizer B2B platform.
- Implemented automated unit testing with **GitLab CI**, **TypeScript**, and **TDD**, resolving platform bug tickets and maintaining test coverage.

Smart Prints KSA | Remote

Software Developer | **Dec 2021 - Apr 2024**

- Implemented **Android OS security hardening** and cybersecurity compliance with data encryption at rest, secure IPC, and TLS transport security to pass security audits and ensure data protection.
- Optimized vector inference processing by tuning **TensorFlow Lite (TFLite)** and **Java** thread pools, accelerating CPU model execution without UI thread blocking.
- Engineered a low-level device monitoring SDK using **Kotlin**, **C++**, **AIDL**, and **Java**, tracking POS hardware health (CPU load, memory allocation, storage monitoring).
- Performed memory profiling on resource-constrained POS kiosks using **Android Profiler** and **LeakCanary**, systematically eliminating memory leaks and OOM crashes.

EDUCATION

Ecole Supérieure en Informatique de Sidi Bel Abbès (ESI SBA) | Algeria

Master's Degree & State Engineer Degree in Computer Science | **Graduated Sept 2022**

- **Specialization:** Information Systems and Web.
- **Thesis:** *E-Recruitment Recommendation Systems* (Microservices, gRPC, Micro-frontends).

PROJECTS | [BENATHMANE.COM](https://benathmane.com)

RxOn | [Maven Central](https://maven-central)

- Published **RxOn** on **Maven Central**, a pure Java wrapper library over **RxJava 3** enforcing explicit background thread offloading.

UXIGuide | [GitHub](https://github.com)

- Developed **UXIGuide**, a multimodal web assistant built with **Python**, **FastAPI**, **WebSockets**, and **Google Gemini Live API**.

DigCV

- Engineered **DigCV**, a decentralized P2P document-sharing app built with **Java** and **Google Nearby APIs** (Top 20 Global Finalist in Huawei APPsUP Contest).