

Karim El Yaagoubi

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PROFILE

Software Engineer specializing in **Flutter and Spring Boot**, with proven experience building **production-ready mobile applications and developer tools used by thousands of users**. Strong background in system design, backend development, and Semantic Web technologies, with a focus on delivering scalable and impactful solutions.

PROJECTS & EXPERIENCE

Semantic Modeling & Analytics of Cancer Data | Python, Feb 2026 – Present
RDF, SPARQL, OWL, Academic project

- Designed and implemented an **end-to-end Semantic Web pipeline** for breast cancer analytics
- Built OWL ontology and transformed structured datasets (CSV → RDF) using Python
- Performed advanced **SPARQL querying and triplestores benchmarking**
- Deployed an **interactive dashboard on cloud infrastructure**, enabling efficient querying and analysis of complex biomedical data

Audio Tag Editor | Flutter, BLoC, Android ☑ Aug 2025

- Built and launched a **production-ready Flutter mobile application** for audio metadata editing
- Integrated a custom Flutter plugin with native Android (Java) code for efficient file processing
- Implemented **BLoC architecture** for scalable and maintainable state management
- Achieved **5,000+ installs** and **50+ paying users**, generating real revenue on Google Play

flutter_audio_tagger (Open Source) | Dart, Java, Method Channels ☑ Jul 2025

- Developed and maintained an **open-source Flutter plugin** for reading and editing audio metadata
- Implemented **platform-specific Android code (Java)** and bridged it using method channels
- Supported multiple formats: MP3, M4A, FLAC, OGG, AIFF, WAV, WMA
- Designed a clean and extensible **Tag data model** for managing metadata (title, artist, album, lyrics, genre, artwork)

CourierFlow | Flutter, Spring Boot, GraphHopper, May 2025
JWT ☑

- Developed a **Flutter mobile application** for delivery management and route tracking
- Integrated with a **Spring Boot backend API** implementing GraphHopper for route optimization
- Implemented **JWT-based authentication** for secure communication between client and backend
- Enabled efficient route planning and delivery workflow management

CERTIFICATES

- Oracle Certified Professional: Java SE 17 Developer ☑

SKILLS

Languages – Java, Dart, C, PL/SQL, **Mobile** – Flutter, **Backend** – Spring Boot, **Data Engineering & Semantic Web** – SQL, SPARQL, RDF, OWL, Knowledge Graphs, **Core** – Data Structures, Algorithms, Object-Oriented Design

EDUCATION

National School Of Applied Sciences, Oujda, Morocco
Data science and cloud computing

Les Classes Préparatoires aux Grandes Écoles (CPGE), Oujda, Morocco
Technology and industrial science