

ELMEHDAOUI Ahmed zine el abidine

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Summary

Software engineer specializing in mobile development with Flutter, backend and API development, and automation. Strong experience in software engineering: requirements analysis, writing functional specifications, UML/BPMN modeling, and designing robust software architectures. Skilled in building secure and efficient solutions in agile environments.

Education

- **Master's Degree in Software Engineering** 09/2023 – 07/2025
University of Science and Technology Houari Boumediène
- **Bachelor's Degree in Information Systems and Software Engineering** 09/2020 – 07/2023
University of Science and Technology Houari Boumediène
- **Scientific Baccalaureate – Experimental Sciences** 07/2019
Honours (Mention Bien)

Experience

- **Hb Technologies SPA — Mobile Driving License (mDL)** 11/2024 – 07/2025
Design and development of a **mobile driver's license solution** compliant with **ISO 18013-5**. Includes two mobile apps (holder & verifier) and a platform for the **issuing authority**, built using a **microservices architecture**. Backend in **GoLang**, apps in **Flutter**, facial recognition in **Python**. Secured through **PKI infrastructure** and **Redis** for key storage.

Academic Projects

- **Bike Rental Mobile App with IoT** 02/2023 – 05/2023
Developed a Flutter app with integrated payment system. Each bike is equipped with a custom-built smart lock using Arduino + Bluetooth.
- **Medical Records and Prescriptions Management System** 05/2023
Created using Windev (frontend/backend) in under 5 days following Agile practices.
- **Scientific Club Web App – Micro Club** 05/2022
University project using HTML/CSS/JS + PHP (no frameworks) for managing student registrations with email verification and admin approval. Includes contact form.
- **Dairy Production Management System** 04/2022 – 05/2022
JavaFX application with SQL database for inventory, production, and order tracking.

Technical Skills

Languages: Dart, GoLang, Java, C, Python, PHP, HTML, CSS, JavaScript

Frameworks & Libraries: Flutter, JavaFX, Laravel, RiverPod, Flask, FaceRecognition, GORM, Gin

Databases: PostgreSQL, MongoDB, Redis

Modeling: UML 2.0, BPMN 2.0

Core Skills: Software design, agile methodologies, problem-solving, API development, software architecture, advanced SQL / data warehousing

Soft Skills: Problem solving, analytical thinking, effective communication, time management

Tools: Git, Windev, Arduino, Figma

Languages

Arabic – Native

French – Good

English – Proficient