

# ELMEHDAOUI Ahmed zine el abidine

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Date of Birth: 31 Jan 2000

## Summary

Software engineer specializing in mobile development, 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.

## Experience

- **Professional Services Engineer @CaptureDoc** 08/2025 – Present  
Designing and implementing cognitive document capture and intelligent process automation solutions leveraging AI for document understanding and workflow optimization. Fine-tuning and deploying multimodal language models for automated document classification, data extraction, and content analysis. Developing AI-driven automation pipelines integrating NLP and computer vision to enhance operational efficiency and reduce manual processing time, orchestrated through Tungsten Total Agility (TTA)
- **Internship @Hb Technologies — 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.
  - Facilitated secure international usage of digital licenses through adherence to global interoperability standards.
  - Reduced risks of fraud by leveraging PKI encryption, facial recognition and electronic signatures.
  - Gained hands-on expertise in advanced security protocols, microservice design, and automation.

## 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)

## Projects

- **Bike Rental App with IoT** 02/2023 – 05/2023  
Developed a cross-platform mobile app using **Flutter** with integrated payment system. Each bike is equipped with a custom-built smart lock using Arduino + Bluetooth.
  - Simplified campus mobility for students and staff by enabling real-time bike reservations.
  - Learned to integrate hardware (Arduino) with mobile software using Bluetooth communication.
  - Gained experience in building secure and user-friendly apps with payment features.
- **Medical Records and Prescriptions Management System** 05/2023  
Created using Windev (frontend/backend) in under 5 days following Agile practices.
  - Streamlined medical data management for doctors and patients.
  - Delivered a fully working prototype under tight deadlines using agile sprints.
- **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.

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## Technical Skills

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

**Frameworks & Libraries:** Flutter, JavaFX, Laravel, RiverPod, Flask, GORM, Gin, PyTorch, Transformers, Hugging Face, LangChain, OpenCV, Pandas, NumPy, NLTK, spaCy, FaceRecognition

**Databases:** Oracle, PostgreSQL, MongoDB, Redis

**Modeling:** UML 2.0, BPMN 2.0

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

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

**Tools:** Git, Windev, Arduino, Figma

## Languages

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**English** – Proficient

**Arabic** – Native

**French** – Good