

# ABD-UL-HAQ AMINE LADREM

## IT ENGINEER / SOFTWARE DEVELOPER

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### SUMMARY

Highly motivated Software Developer with expertise in full-stack development, embedded systems, and IoT solutions. Proven ability in designing innovative and efficient software solutions, leveraging programming skills in Python, Java, JavaScript, and C++. Passionate about robotics, automation, and developing systems that improve real-world efficiency and reliability.

### TECHNICAL SKILLS

Programming Languages	Frontend Technologies	Databases	IoT & Embedded Systems
Python, Java, JavaScript, C/C++, PHP, Assembly, Shell/Bash, Dart	HTML, CSS, JavaScript, Flutter, Next.js	MySQL, Firebase,UML SQLite,MSSQL MariaDB	Arduino, ESP-IDF, Node-RED, Raspberry Pi, MicroPython
	Backend Technologies	Tools & Platforms	
	Laravel, Django	Git/GitHub	

### PROFESSIONAL EXPERIENCE

IoT Developer, Home by Kasbah, Algeria	Jul 2023 - Jul 2024
<b>Sonatrach – Smart Room Management System</b>	
<ul style="list-style-type: none"><li>Developed and deployed smart room service with remotely configurable smart locks (BLE, Wi-Fi).</li><li>Utilized ESP32-C6 and ESP-IDF to implement RFID functionalities.</li><li>Created a web dashboard application for monitoring smart lock access and managing users using Node-RED, MariaDB, and front-end technologies HTML/CSS/JS.</li></ul>	
<b>Metro d'Alger – Tripod Access Control System</b>	
<ul style="list-style-type: none"><li>Developed secure communication protocols to manage ticket validation data exchange between remote servers and tripod access gates (Python-based solutions utilizing SSH and SFTP).</li></ul>	
Internship, Port of Algiers, Algeria	Jan 2023 - Jun 2023
<ul style="list-style-type: none"><li>Developed a mobile/web application using Arduino, Flutter, Laravel, MySQL and Firebase for real-time container tracking at the port of Algiers.</li></ul>	

### EDUCATION

University of Basel, Switzerland	Sep 2024 - Present
<ul style="list-style-type: none"><li>Master’s in Computer Science (Machine Intelligence specialization)</li></ul>	
University of Sciences and Technology Houari Boumediene, Algeria	Oct 2020 - Jun 2023
<ul style="list-style-type: none"><li>Bachelor’s Degree in Computer Systems Engineering and Software</li></ul>	
Bouzaghi Rabah High School, Algeria	Sep 2017 - Sep 2020
<ul style="list-style-type: none"><li>Mathematics Baccalaureate Degree</li></ul>	

### ADDITIONAL INFORMATION

- Languages:** Arabic, English, French.
- Awards/Activities:** NCS-Hackathon Winner (May 2024), MSRC Winner (Apr 2024)