

EL BOUYED Zainab

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 ZainabElbouyed

First-year engineering student specializing in Ubiquitous and Distributed Systems – Cloud IoT. I have a strong interest in **front-end web development**. I am currently seeking a **two-month internship** to apply my skills, deepen my knowledge, and grow in a dynamic environment.

Education

2024-Present	Engineering cycle at INPT - Ubiquitous and Distributed Systems Engineering - Cloud & IoT .
2022-2024	Preparatory classes for engineering schools (CPGE) PSI, Okba Ibn Nafea High School - Dakhla .
2022	Baccalaureate in Physical Sciences with highest honour, Lalla Khadija High School - Dakhla .

Projects

GreenTech SmartBin: Connected Solution for Sustainable Waste Management	October 2024 – Present
<ul style="list-style-type: none">Developed a smart bin using IoT, Arduino, and sensors for automated monitoring of fill levels, and implemented AI algorithms to optimize collection schedules. A web application was created (HTML, CSS, JavaScript) to efficiently manage and visualize collection routes.	
AirSense – Smart Air Quality Monitoring System for Schools	December 2024 – February 2025
<ul style="list-style-type: none">Developed a smart air quality monitoring system for schools using AI, IoT, and low-power sensors. Real-time tracking, automatic alerts, a mobile application (JavaScript, HTML, CSS, Bootstrap, Express.js, Next.js), and dynamic ventilation control.	
EasyCrowd – Smart Crowd Management (World Cup 2030)	January 2025 – April 2025
<ul style="list-style-type: none">Developed an intelligent platform (HTML, CSS, JavaScript, Express.js, React.js) combining AI, IoT, and geolocation to optimize crowd management during large-scale events. The platform enables real-time flow monitoring, detection of overcrowded zones, and personalized route suggestions for visitors. Organizers receive automatic alerts and visualize data through heatmaps.	
Personal Portfolio Website HTML, CSS, JavaScript et Bootstrap	March 2025 – May 2025
<ul style="list-style-type: none">Created a first personal website, an online portfolio, to learn the fundamentals of web development and gain skills in design and layout.	
GitHub Repo Online Portfolio	

Technical skills

DevOps Tools: Version Control (Git,GitHub), Bash scripting.
Programming Languages: Java (POO), C, C++ (POO), Python.
Web Development: HTML, CSS, JavaScript .
Frameworks: Bootstrap, Express.js, React.js .
Embedded & IoT Development: Arduino, ESP32.
Embedded & Distributed Systems Architecture: Software Architecture (UML: Unified Modeling Language), Embedded systems architecture, Processor and memory management (CPU, RAM, cache optimization), Hardware-software interaction.
Operating Systems: Windows, Linux (Ubuntu & Kali).
Database Management: Relational databases (SQL).

Soft skills

Teamwork: Experienced in collaborating on group projects, actively contributing and supporting peers.
Communication: Able to clearly convey ideas, both written and verbal.
Problem Solving: Strong analytical thinking with a creative approach to troubleshooting.
Adaptability: Quick to learn new technologies and adapt to changing environments.
Time Management: Skilled at managing multiple tasks and meeting deadlines efficiently.

Languages

French: (B2)	English: (B1)	Arabic: (C2)
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